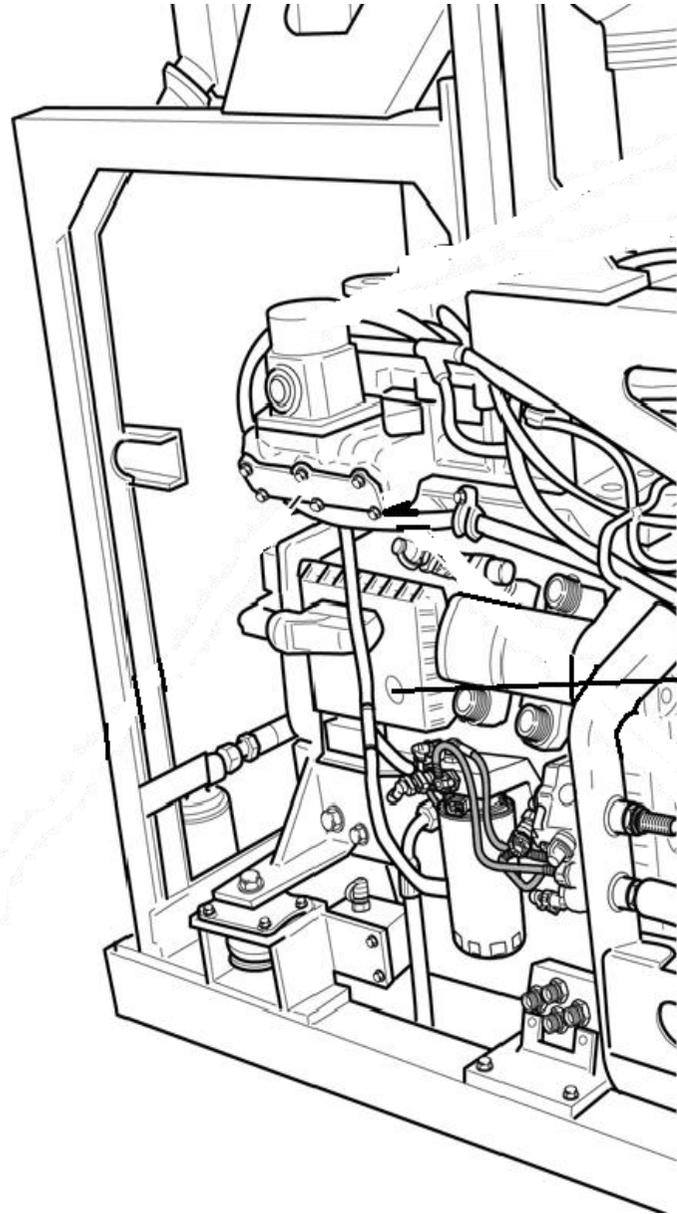


dtc trouble codes diesel engine



Diesel_engine id 0

dtc trouble codes diesel engine

SPN	FMI	Parameter	Failure mode	Categories
100	1	Oil pressure sensing	Oil Pressure Sensor: Physical signal below minimum limit	Diesel engine
100	14	Oil Lubricant	Oil Pump control: measured oil pressure lower than target pressure	Diesel engine
100	15	Oil Lubricant	Oil Pump control: measured oil pressure higher than target pressure	Diesel engine
100	16	Oil Pump control	Duty cycle above maximum limit expected for the considered operating point	Diesel engine
100	17	Oil Pump control	Duty cycle below minimum limit expected for the considered operating point	Diesel engine
100	18	Oil pressure sensing	Diagnostic fault check for oil pressure below minimum limit	Diesel engine
100	19	Oil pressure sensing	Signal error on CAN for oil pressure sensor	Diesel engine
100	2	Oil pressure sensing	Plausibility check for oil pressure sensor	Diesel engine
100	20	Oil pressure sensing	Oil Pressure Sensor: Physical signal above maximum limit	Diesel engine
100	3	Oil pressure sensing	SRC high for oil pressure sensor	Diesel engine
100	4	Oil pressure sensing	SRC low for Oil pressure sensor	Diesel engine
101	0	Crankcase pressure	Crankcase differential pressure : Signal Range Check high	Diesel engine
101	1	Crankcase pressure	Crankcase differential pressure : Signal Range Check low	Diesel engine
102	0	Boost pressure	Boost pressure sensor: SRC High Air Intake pressure value	Diesel engine
102	1	Boost pressure	Boost pressure sensor: SRC Low Air Intake pressure value	Diesel engine
102	15	Boost pressure	Diagnostic Fault Check for High Plausibility error	Diesel engine
102	16	Boost pressure	Boost pressure sensor: over boost detection	Diesel engine
102	17	Boost pressure	Diagnostic Fault Check for Low Plausibility error	Diesel engine
102	20	Boost pressure	Boost pressure sensor: Physical Signal above maximum limit	Diesel engine
102	21	Boost pressure	Boost pressure sensor: Physical Signal below minimum limit	Diesel engine
103	0	Turbocharger speed sensor	SRC High fault path	Diesel engine
103	1	Turbocharger speed sensor	SRC low fault path	Diesel engine
103	11	Turbocharger control	Irreversible turbine overspeed detected	Diesel engine
103	13	Turbocharger speed sensor	Turbocharger Speed too high (3rd detection)	Diesel engine
103	14	Turbocharger speed sensor	Turbocharger Speed too high (2nd detection)	Diesel engine
103	15	Turbocharger speed sensor	Turbocharger Speed too high (1st detection)	Diesel engine
103	16	Turbocharger control	Turbocharger reversible overspeed detection (open burst)	Diesel engine
103	2	Turbocharger speed sensor	Turbine speed sensor: Implausible speed variations	Diesel engine
103	31	Turbocharger control	Turbocharger Irreversible overspeed detection	Diesel engine
103	8	Turbocharger control	Turbine speed sensor: signal long period fault path	Diesel engine
1041	10	Engine compartment button	Start button pressed too long	Diesel engine
1041	7	Engine compartment button	Start Button stuck	Diesel engine
1043	15	ECU Voltage Supply	Monitoring of internal 12V supply SRC_HIGH Error	Diesel engine
1043	17	ECU Voltage Supply	Monitoring of internal 12V supply SRC_LOW Error	Diesel engine
1043	20	ECU Voltage Supply	Monitoring of 12V sensor supply 1 SRC_HIGH Error	Diesel engine
1043	21	ECU Voltage Supply	Monitoring of 12V sensor supply 1 SRC_LOW Error	Diesel engine
105	0	Boost temperature	SRC high for air intake temperature	Diesel engine
105	1	Boost temperature	SRC low for air intake temperature	Diesel engine
105	20	Boost temperature	Physical Signal above maximum limit	Diesel engine
105	21	Boost temperature	Physical Signal below minimum limit	Diesel engine
105	31	Torque Limitation active	Torque limitation caused by high air intake temperature	Diesel engine
107	0	Air Filter	Air Filter clogged, dP Pressure above second threshold (critical)	Diesel engine
107	10	Air Filter	Abnormal air pressure variation at filter, possible filter tampering	Diesel engine
1071	3	Cooling fan control	Fan PWM Actuator: Short Circuit to Battery error	Diesel engine
1071	4	Cooling fan control	Fan PWM Actuator: Short Circuit to Ground error	Diesel engine
107	14	Air Filter	Air Filter clogged, dP Pressure above first threshold	Diesel engine
1071	5	Cooling fan control	Fan PWM Actuator: Open load error	Diesel engine
107	15	Air Filter	Air Filter Clogging first level warning	Diesel engine
1071	6	Cooling fan control	Fan PWM Actuator: Over temperature error	Diesel engine
107	16	Air Filter	Air Filter Clogging second level warning	Diesel engine
107	2	Air Filter Pressure Sensor	Air Filter Clogging sensor switch implausible	Diesel engine
1072	14	Decompression brake	High Side SCB error and Low side SCG error	Diesel engine
1072	3	Decompression brake	Engine Compression Release Valve: Short Circuit to Battery error at high side	Diesel engine

dtc trouble codes diesel engine

1072	4	Decompression brake	Engine Compression Release Valve: Short Circuit to Ground error at high side	Diesel engine
107	31	Air Filter Pressure Sensor	Air Filter Pressure Sensor: Sensor drifted	Diesel engine
1073	3	Decompression brake	Engine Compression Release Valve: Short Circuit to Battery error at low side	Diesel engine
1073	4	Decompression brake	Engine Compression Release Valve: Short Circuit to Ground error at low side	Diesel engine
1073	5	Decompression brake	Engine Compression Release Valve: Open Load error at low side	Diesel engine
1073	6	Decompression brake	Engine Compression Release Valve: Over Temperature error at low side	Diesel engine
107	7	Air Filter	Air Filter resistance too low (Filter breached or incorrectly mounted)	Diesel engine
108	0	Ambient pressure sensor	SRC High for Environment Pressure	Diesel engine
108	1	Ambient pressure sensor	SRC low for Environment Pressure	Diesel engine
108	11	Ambient pressure sensor	CAN message reports a defect	Diesel engine
108	20	Ambient pressure sensor	Physical Signal above maximum limit	Diesel engine
108	21	Ambient pressure sensor	Physical Signal below minimum limit	Diesel engine
109	0	Coolant pressure	Coolant Pressure Sensor downstream water pump: SRC high for pressure sensor	Diesel engine
109	1	Coolant pressure	Coolant Pressure Sensor downstream water pump: SRC low for pressure sensor	Diesel engine
109	15	Coolant pressure	Coolant Pressure Sensor upstream water pump: value too high	Diesel engine
109	17	Coolant pressure	Coolant Pressure Sensor upstream water pump: value too low, water pump cavitation risk	Diesel engine
109	2	Coolant pressure	NPL error detection for coolant pressure state sensor	Diesel engine
109	20	Coolant pressure	Coolant Pressure Sensor downstream water pump: Physical signal above maximum limit	Diesel engine
109	21	Coolant pressure	Coolant Pressure Sensor downstream water pump: Physical signal below minimum limit	Diesel engine
109	4	Coolant pressure	Min error detection for coolant pressure state sensor	Diesel engine
110	0	Torque Limitation active	Engine temperature exceeded warn level	Diesel engine
110	11	Temperature Sensor	Plausibility check: One or more temperature sensors deviating from expected value at cold start (measured temp.too low)	Diesel engine
110	14	Coolant temp sensor	Coolant temp sensor: defect fault check for dynamic plausibility test	Diesel engine
110	15	Engine temperature	Engine coolant temperature exceedingly high (1st detection)	Diesel engine
110	16	Torque Limitation active	Engine temperature exceeded pre-warm level	Diesel engine
110	17	Engine temperature	Engine coolant temperature exceedingly low	Diesel engine
110	19	Coolant temp sensor	Error over CAN for Engine coolant temperature(down stream)	Diesel engine
110	2	Coolant temp sensor	Defect fault check for Absolute plausibility test	Diesel engine
110	20	Temperature Sensor	Plausibility check: One or more temperature sensors deviating from expected value at cold start (measured temp.too high)	Diesel engine
110	21	Coolant temp sensor	Engine Cooling Water Temperature Sensor: Physical Signal below minimum limit	Diesel engine
110	31	Torque Limitation active	Torque limitation caused by high engine coolant temperature	Diesel engine
110	7	Coolant temp sensor	Engine Coolant Temperature: value not plausible compared to reference temp sensor after long stand still time	Diesel engine
111	18	Coolant level	Coolant level: Low coolant level	Diesel engine
11	14	ECU SW Reset	ECU SW Reset: Invisibility Software Resets	Diesel engine
1116	31	ECU Internal	ECU Internal: Diagnostic fault check to report the error due to injection quantity correction	Diesel engine
1127	0	Turbocharger control	Turbocharger control: Boost pressure value above highest threshold value	Diesel engine
1127	11	Turbocharger control	Turbocharger controller: Multi signal defect	Diesel engine
1127	14	Turbocharger control	Slow boot pressure buildup error	Diesel engine
1127	16	Turbocharger control	Turbocharger control: Boost pressure deviation from target value too high (overboost)	Diesel engine
1127	31	Turbocharger control	Boost pressure: Overboost detection	Diesel engine
1128	18	Turbocharger control	Underboost detection	Diesel engine
1135	15	Oil Temperature sensing	Oil temperature too high (even detection)	Diesel engine
1136	0	ECU Temperature sensing	ECU Temperature Sensor: Signal above maximum limit	Diesel engine
1136	1	ECU Temperature sensing	Diagnostic Fault Check for Signal below minimum limit	Diesel engine
1136	12	ECU Temperature sensing	SPI Error ECU temperature sensor (LM71)	Diesel engine
1136	14	ECU Temperature sensing	ECU Temperature Sensor: Physical Signal ECU Temperature first sensor above maximum limit	Diesel engine
1136	20	ECU Temperature sensing	ECU Temperature Sensor: Physical Signal ECU Temperature second sensor above maximum limit	Diesel engine
1136	21	ECU Temperature sensing	ECU Temperature Sensor: Physical Signal ECU Temperature second sensor below minimum limit	Diesel engine
1136	31	ECU Temperature sensing	ECU Temperature Sensor: Physical Signal ECU Temperature first sensor below minimum limit	Diesel engine
1136	6	EGR Temperature Sensor	ECU over temperature error regardless of the state	Diesel engine
1203	0	Coolant pressure	Coolant Pressure Sensor upstream water pump: Signal Range Check error high	Diesel engine
1203	1	Coolant pressure	Coolant Pressure Sensor upstream water pump: Signal Range Check error low	Diesel engine
1203	2	Coolant pressure	Coolant Pressure Sensor upstream water pump: signal invalid	Diesel engine
1203	20	Coolant pressure	Coolant Pressure Sensor upstream water pump: Physical signal above maximum limit	Diesel engine
1203	21	Coolant pressure	Coolant Pressure Sensor upstream water pump: Physical range low	Diesel engine

dtc trouble codes diesel engine

1209	0	P3 Pressure	Turbine Upstream Pressure Sensor: Signal range check high	Diesel engine
1209	1	P3 Pressure	Turbine Upstream Pressure Sensor: Signal range check low	Diesel engine
1209	14	Turbocharger control	Turbine upstream pressure: Value too high, deviation from setpoint	Diesel engine
1209	15	Turbocharger control	Turbine upstream pressure: Value too high (overpressure)	Diesel engine
1209	16	Turbocharger control	Exhaust gas overpressure (P3), value above maximum threshold	Diesel engine
1209	2	P4 Pressure	Plausibility error of exhaust pressure P4	Diesel engine
1209	20	P3 Pressure	Turbine Upstream Pressure Sensor: Physical Signal above maximum limit	Diesel engine
1209	21	P3 Pressure	Turbine Upstream Pressure Sensor: Physical Signal below minimum limit	Diesel engine
1209	31	Turbocharger control	Turbocharger control: Exhaust gas overpressure (P3), deviation from target	Diesel engine
1209	7	P3 Pressure	Turbine upstream Pressure: pressure too low	Diesel engine
1213	3	OBD Lamp (MIL)	Short circuit to battery error	Diesel engine
1213	4	OBD Lamp (MIL)	Short circuit to ground error	Diesel engine
1213	5	OBD Lamp (MIL)	No load error	Diesel engine
1213	6	OBD Lamp (MIL)	Over temperature error	Diesel engine
1231	2	CAN Bus	Error passive CAN Bus Node B	Diesel engine
1231	31	CAN Bus	Error CAN Bus Node B	Diesel engine
1235	2	CAN Bus	Error passive CAN Bus Node C	Diesel engine
1235	31	CAN Bus	Error CAN Bus Node C	Diesel engine
1239	14	Fuel pressure (Rail) control	Monitoring for pressure loss in the high pressure fuel rail	Diesel engine
1239	31	Fuel pressure control CPC	Rail leakage test aborted too often	Diesel engine
1240	11	Fuel pressure control Metering unit	Fuel pressure control Metering unit: Leakage in overrun	Diesel engine
1240	14	Fuel pressure control Metering unit	Fuel pressure control Metering unit: Leakage in high pressure system detected at idle	Diesel engine
1240	31	Fuel pressure (Rail) control	Fuel pressure (Rail) control: Leakage in high pressure system	Diesel engine
1254	14	Torque Limitation active	Torque Limitation active: Torque limitation caused by smoke limitation	Diesel engine
1321	3	Starter control	Starter Relay LS: power stage output short circuit to battery.	Diesel engine
1321	4	Starter control	Starter Relay LS: Power stage output short circuit to ground	Diesel engine
1321	5	Starter control	Starter Relay LS: power stage output No Load error	Diesel engine
1321	6	Starter control	Starter Relay LS: power stage output over temperature error	Diesel engine
1349	15	Fuel pressure control CPC	fuel rail pressure exceeds maximal limit during rail press control "both devices"	Diesel engine
1349	16	Fuel pressure control CPC	fuel rail pressure exceeds maximal limit during rail press control "both devices" with low Fuel level in Tank	Diesel engine
1349	17	Fuel pressure control CPC	fuel rail pressure below minimal threshold during rail press control "both devices"	Diesel engine
1349	18	Fuel pressure control CPC	fuel rail pressure below minimal threshold during rail press control "both devices" with low Fuel level in Tank	Diesel engine
1349	2	Fuel pressure control CPC	PCV position not plausible (too much closed) during rail press control "both devices"	Diesel engine
1349	31	Fuel pressure control CPC	PCV position not plausible (too much closed) during rail press control "both devices" with Low Fuel level in Tank	Diesel engine
1350	0	DPF Filter	service interval overdue	Diesel engine
1378	0	Oil Lubricant	Oil lubricant monitoring: Oil dilution too high (viscosity below minimal threshold)	Diesel engine
1378	15	Oil Lubricant	Oil Lubricant monitoring:critical distance covered with oil change	Diesel engine
1378	16	DPF Lube Oil monitoring	Critical time for oil dilution exceeded	Diesel engine
1378	31	Oil Lubricant	Oil lubricant monitoring:oil change dependent on covered vehicle mileage	Diesel engine
1382	14	Fuel Filter	Fuel pre filter: filter clogged warning	Diesel engine
1382	31	Fuel Filter	Fuel Filter: Pre filter is clogged	Diesel engine
1442	0	Fuel pressure control Metering unit	Fuel Rail pressure above maximum limit with MeUn Control	Diesel engine
1442	1	Fuel pressure control Metering unit	Fuel rail pressure below limit with MeUn Control with empty tank	Diesel engine
1442	14	Fuel metering unit	Fuel metering unit: signal range check low error of metering unit AD-channel	Diesel engine
1442	18	Fuel pressure control Metering unit	Too low fuel rail pressure in fast transient condition with MeUn Control with empty tank	Diesel engine
1442	2	Fuel metering unit	Error check for loose contact between metering unit (MeUn) and ECU	Diesel engine
1442	3	Fuel metering unit	Short Circuit to Battery at High Side	Diesel engine
1442	31	Fuel metering unit	signal range check high error of metering unit AD-channel	Diesel engine
1442	4	Fuel metering unit	Short Circuit to Ground at High Side	Diesel engine
1442	5	Fuel metering unit	open load of metering unit output	Diesel engine
1442	6	Fuel metering unit	over temperature of device driver of metering unit	Diesel engine
1443	3	Fuel metering unit	Short Circuit to Battery at Low Side	Diesel engine
1443	4	Fuel metering unit	Short Circuit to Ground at Low Side	Diesel engine
1485	11	Post Drive Relay LS	Short Circuit to Battery error at the High Side	Diesel engine
1485	13	ECU Main relay	Early opening defect of main relay	Diesel engine

dtc trouble codes diesel engine

1485	14	Post Drive Relay LS	Over Temperature error at the Low Side	Diesel engine
1485	3	Post Drive Relay HS	Short Circuit to Battery error at the High Side	Diesel engine
1485	31	Post Drive Relay HS	Power stage output short circuit to ground or Open Load	Diesel engine
1485	4	Post Drive Relay HS	Power stage output short circuit to ground	Diesel engine
1485	5	Post Drive Relay HS	No load error at the High Side	Diesel engine
1485	6	Post Drive Relay HS	Over Temperature error at the High Side	Diesel engine
1485	7	ECU Main relay	DFC for stuck main relay error	Diesel engine
152	14	ECU SW Reset	Software Resets visible to all testers	Diesel engine
152	31	ECU SW Reset	Software Resets, visible to manufacturer Tester only	Diesel engine
153	0	Crankcase pressure	Fuel in Oil detection: High crankcase pressure detected , second time step	Diesel engine
153	15	Crankcase pressure	Fuel in Oil detection: Pre-Warning: Oil pressure monotnoe increasing	Diesel engine
153	16	Crankcase pressure	Fuel in Oil detection: High crankcase pressure detected, first time step	Diesel engine
153	17	Crankcase pressure	Fuel in Oil detection: Fuel in Oil detected since last driving cycle (oil pressure low: low oil viscosity)	Diesel engine
153	2	Crankcase pressure	Crankcase differential pressure: Physical signal below a filtered threshold value (Plausibiliy Check)	Diesel engine
153	20	Crankcase pressure	Crankcase differential pressure : Physical signal above upper limit (physical SRC)	Diesel engine
153	21	Crankcase pressure	Crankcase differential pressure : Physical signal below lower limit (physical SRC)	Diesel engine
1569	14	Torque Limitation active	Torque limitation caused by engine protection	Diesel engine
1569	31	Torque Limitation active	Torque limitation caused by injection system	Diesel engine
1569	6	Torque Limitation active	Torque limitation caused by selectable high temperature	Diesel engine
157	0	Fuel pressure (Rail) control	Rail Collective fault2 Positive detected	Diesel engine
157	1	Injector	Injector: check of minimum rail pressure	Diesel engine
157	11	Fuel pressure (Rail) sensor	Sensor voltage above upper limit	Diesel engine
157	12	Fuel pressure (Rail) sensor	Sensor voltage below lower limit	Diesel engine
157	14	Fuel pressure (Rail) control	Rail Collective fault Dvol Positive detected	Diesel engine
157	15	Fuel pressure (Rail) control	Rail Collective fault0 Positive detected	Diesel engine
157	16	Fuel pressure (Rail) control	Rail Collective fault1 Positive detected	Diesel engine
157	17	Fuel pressure (Rail) control	Rail Collective fault0 Negative detected	Diesel engine
157	18	Fuel pressure (Rail) control	Rail Collective fault1 Negative detected	Diesel engine
157	2	Fuel pressure (Rail) sensor	Rail pressure raw value is intermittent	Diesel engine
157	20	Fuel pressure (Rail) sensor	Rail pressure raw value is above maximum offset	Diesel engine
157	21	Fuel pressure (Rail) sensor	Rail pressure raw value is below minimum offset	Diesel engine
157	31	Fuel pressure (Rail) control	Rail Collective fault2 Negative detected	Diesel engine
158	16	Battery voltage	Power stage diagnosis could be disabled due to high Battery voltage	Diesel engine
158	18	Battery voltage	Power stage diagnosis could be disabled due to low Battery voltage	Diesel engine
1623	19	Vehicle speed sensor	Signal error for cardan speed over CAN	Diesel engine
1624	0	Vehicle speed sensor	Tachometer signal - pulse width too long	Diesel engine
1624	1	Vehicle speed sensor	Tachometer signal - pulse width too short	Diesel engine
1624	19	Vehicle speed sensor	Vehicle speed sensor: Vehicle speed signal via CAN defective	Diesel engine
1624	31	Vehicle speed sensor	CAN vehicle speed source and HRWS replacement defect	Diesel engine
1624	8	Vehicle speed sensor	Tachometer signal - period duration too short	Diesel engine
1624	9	CAN Bus	CAN Bus: Timeout Error of CAN-Receive-Frame Tachograf (TCO1)	Diesel engine
1632	14	Torque Limitation active	Torque limitation caused by turbo charger protection after start	Diesel engine
1632	31	Torque Limitation active	Torque limitation caused by turbo charger protection	Diesel engine
1636	0	Intake manifold	Intake manifold upstream temperature too high	Diesel engine
1639	12	Cooling fan control	Fan speed sensor: signal long period fault path (fan speed not measurable)	Diesel engine
1639	20	Cooling fan control	Fan speed sensor: Signal range check high	Diesel engine
1639	21	Cooling fan control	Fan speed sensor: Signal range check low	Diesel engine
1639	9	CAN Bus	Timeout Error of CAN-Transmit-Frame CM1	Diesel engine
1648	11	ECU Internal	Error report "ABE/WDA active" due to an unknown reason	Diesel engine
1648	12	ECU Internal	Diagnostic fault check to report "WDA active" due to errors in query-/response communication	Diesel engine
1648	3	ECU Internal	Diagnostic fault check to report "ABE active" due to overvoltage detection	Diesel engine
1648	4	ECU Internal	Diagnostic fault check to report "ABE active" due to undervoltage detection	Diesel engine
1659	15	Coolant temp sensor	DFC-ID of CtT to be used with DSM	Diesel engine
1659	2	Coolant Thermostat	Thermostat monitor: deviation between measured and modeled temperature	Diesel engine
1659	3	Coolant Thermostat	DFC for SCB error on the PWM output power stage	Diesel engine

dtc trouble codes diesel engine

1659	4	Coolant Thermostat	DFC for SCG error on the PWM output power stage	Diesel engine
1659	5	Coolant Thermostat	Open Load error on the PWM output power stage	Diesel engine
1659	6	Coolant Thermostat	DFC for OvrTemp error on the PWM output power stage	Diesel engine
1668	14	CAN Bus	Error passive CAN Bus Node D	Diesel engine
1668	31	CAN Bus	Error CAN Bus Node D	Diesel engine
1675	31	ECU Key 16	ECU Key 16: Defective T50 switch	Diesel engine
168	0	Battery voltage	SRC high for battery voltage sensor	Diesel engine
168	1	Battery voltage	SRC low for battery voltage sensor	Diesel engine
168	16	Battery voltage	SRC high for battery voltage sensor	Diesel engine
168	18	Battery voltage	SRC low for battery voltage sensor	Diesel engine
171	0	Ambient temperature sensor	Environmental Temperature sensor (in humidity sensor): SRC High for Environment Temperature	Diesel engine
171	1	Ambient temperature sensor	Environmental Temperature sensor (in humidity sensor): SRC low for Environment Temperature	Diesel engine
171	11	Ambient temperature sensor	Environmental Temperature sensor (in humidity sensor): DFC for CAN message	Diesel engine
171	2	Temperature Sensor	Selected Temperature sensor 3 delivering implausible value (check description for detail)	Diesel engine
171	20	Ambient temperature sensor	Environmental Temperature sensor (in humidity sensor): Physical Signal above maximum limit	Diesel engine
171	21	Ambient temperature sensor	Environmental Temperature sensor (in humidity sensor): Physical Signal below minimum limit	Diesel engine
171	31	Ambient temperature sensor	Environment temperature sensor plausibility check error	Diesel engine
172	0	Boost temperature	SRC High for Boost Temperature sensor	Diesel engine
172	1	Boost temperature	SRC Low for Boost Temperature sensor	Diesel engine
172	14	Temperature Sensor	Selected Temperature sensor 2 delivering implausible value (check description for detail)	Diesel engine
172	19	Boost temperature	CAN Signal error for Boost Temperature Sensor	Diesel engine
172	2	Temperature Sensor	Selected Temperature sensor 1 delivering implausible value (check description for detail)	Diesel engine
172	20	Boost temperature	Physical Signal above maximum limit	Diesel engine
172	21	Boost temperature	Physical Signal below minimum limit	Diesel engine
172	31	Boost temperature	Plausibility Check of the Boost Temperature sensor at cold start	Diesel engine
173	0	T3 Temperature	Turbine Upstream Temperature Sensor: Signal range check high	Diesel engine
173	1	T3 Temperature	Turbine Upstream Temperature Sensor: Signal range check low	Diesel engine
173	14	Temperature Sensor	Selected Temperature sensor 5 delivering implausible value (check description for detail)	Diesel engine
173	2	T3 Temperature	Turbine Upstream Temperature Sensor: Implausibility between measured and modelled value	Diesel engine
173	20	T3 Temperature	Turbine Upstream Temperature Sensor: Physical Signal above maximum limit	Diesel engine
173	21	T3 Temperature	Turbine Upstream Temperature Sensor: Physical Signal below minimum limit	Diesel engine
173	31	Torque Limitation active	Torque limitation caused by high exhaust gas temperature	Diesel engine
174	0	Fuel Temp Sensor	SRC high for fuel temperature sensor	Diesel engine
174	1	Fuel Temp Sensor	SRC low for fuel temperature sensor	Diesel engine
174	14	Fuel Temp Sensor	Failed plausibility check at ECU start	Diesel engine
174	20	Fuel Temp Sensor	Physical Signal above maximum limit	Diesel engine
174	21	Fuel Temp Sensor	Physical Signal below minimum limit	Diesel engine
174	31	Torque Limitation active	Torque limitation caused by high fuel temperature	Diesel engine
1746	31	Immobilizer	DFC to show the status of fuel released or blocked	Diesel engine
175	0	Oil Temperature sensing	Physical Signal above maximum limit	Diesel engine
175	14	Oil Temperature sensing	Oil temperature too high plausibility error	Diesel engine
175	16	Oil Temperature sensing	Oil temperature too high (odd detection)	Diesel engine
175	16	Oil Temperature sensing	Physical Signal deviating from normal temperature range	Diesel engine
175	19	Oil Temperature sensing	Signal error on CAN for Oil Temperature	Diesel engine
175	2	Oil Temperature sensing	Oil Temperature: failed plausibility check at ECU start	Diesel engine
175	21	Oil Temperature sensing	Physical Signal below minimum limit	Diesel engine
175	3	Oil Temperature sensing	SRC High for Oil Temperature	Diesel engine
175	31	Torque Limitation active	Torque limitation caused by high oil temperature	Diesel engine
175	4	Oil Temperature sensing	SRC low for Oil Temperature	Diesel engine
1761	1	SCR Reagent Tank Level	Empty Urea Tank	Diesel engine
1761	13	SCR Reagent Tank Level	Level Sensor: Signal below minimum limit.	Diesel engine
1761	14	SCR Reagent Tank Level	Urea Tank Level: system error	Diesel engine
1761	15	SCR Reagent Tank Level	Urea tank level sensor deviation (too high level)	Diesel engine
1761	16	SCR Reagent Tank Level	Level Sensor: Signal above maximum limit.	Diesel engine
1761	17	SCR Reagent Tank Level	SCR reagent tank level below first warning level, DFC for triggering warning action dependent on filling level of reducing agent	Diesel engine

dtc trouble codes diesel engine

1761	18	SCR Reagent Tank Level	SCR reagent tank level below second warning level, DFC for triggering warning action dependent on filling level of reducing agent	Diesel engine
1761	19	SCR Reagent Level Sensing	Diagnostic fault check for signal error from CAN	Diesel engine
1761	20	SCR Reagent Tank Level	Level Sensor: Physical Signal above maximum limit	Diesel engine
1761	21	SCR Reagent Tank Level	Level Sensor: Physical Signal below minimum limit	Diesel engine
1761	3	SCR Reagent Tank Level	Urea Tank Level: SRC high error	Diesel engine
1761	4	SCR Reagent Tank Level	Urea Tank Level: SRC low error	Diesel engine
1786	19	CAN Bus	Incorrect data length Error of CAN-Receive-Frame CTLPTO	Diesel engine
1786	9	CAN Bus	Timeout Error of CAN-Receive-Frame CTLPTO (from PTO Controller)	Diesel engine
1800	19	CAN Bus	Message data length Error of CAN-Receive-Frame BT1 (Battery Temperature)	Diesel engine
1800	9	CAN Bus	Timeout Error of CAN-Receive-Frame BT1 (Battery Temperature)	Diesel engine
186	20	PTO actuation	Defect Fault Check for signal value above maximum limit	Diesel engine
186	21	PTO actuation	Defect Fault Check for signal value below minimum limit	Diesel engine
188	0	Engine speed limiter	Engine speed exceeds the upper limit while High-Low Speed Demand is active	Diesel engine
188	1	Engine speed limiter	Engine speed falls below the lower limit while High-Low Speed Demand is active	Diesel engine
190	0	Engine Overspeed	Overspeed detection in component engine protection	Diesel engine
190	11	Engine Overspeed	Engine speed too high (5th detection)	Diesel engine
190	12	Engine speed sensing	Indicates if a Two Mass Flywheel resonance shutoff condition is active	Diesel engine
190	14	Engine Overspeed	Engine speed too high (2nd detection)	Diesel engine
190	15	Engine Overspeed	Engine speed too high (3rd detection)	Diesel engine
190	16	Engine Overspeed	Engine speed too high (4th detection)	Diesel engine
190	3	Engine speed sensing	Engine speed signal output: Short circuit to battery error on the engine speed output power stage	Diesel engine
190	31	Engine Overspeed	Engine speed too high (1st detection)	Diesel engine
190	4	Engine speed sensing	Engine speed signal output: Short circuit to ground error on the engine speed output power stage	Diesel engine
190	5	Engine speed sensing	Engine speed signal output: No load error on the engine speed output power stage	Diesel engine
190	6	Engine speed sensing	DFC for OvrTemp error on the PWM output power stage for engine speed output.	Diesel engine
19	1	Oil pressure sensing	Oil Pressure too low (4th detection)	Diesel engine
19	14	Oil pressure sensing	Oil Pressure too low (5th detection)	Diesel engine
19	17	Oil pressure sensing	Oil Pressure too low (2nd detection)	Diesel engine
19	18	Oil pressure sensing	Oil Pressure too low (3rd detection)	Diesel engine
19	31	Oil pressure sensing	Oil Pressure too low (1st detection)	Diesel engine
251	12	CAN Time Date	Defective external clock (tachograph)	Diesel engine
251	14	CAN Time Date	External clock manually reset (summer/winter or time zone changed)	Diesel engine
251	9	CAN Time Date	Timeout Error of CAN-Receive-Frame Time Date message (TimeDate)	Diesel engine
2535	31	LIN-Bus	Bus-Off error	Diesel engine
2630	0	Coolant temp sensor	Secondary coolant circuit: Coolant circuit temperature Signal Range Check error high	Diesel engine
2630	1	Coolant temp sensor	Secondary coolant circuit: Coolant circuit temperature Signal Range Check error low	Diesel engine
2630	19	Coolant temp sensor	Secondary coolant circuit: Coolant circuit temperature invalid signal	Diesel engine
2630	2	Temperature Sensor	Selected Temperature sensor 4 delivering implausible value (check description for detail)	Diesel engine
2630	20	Coolant temp sensor	Secondary coolant circuit: Coolant circuit temperature too high	Diesel engine
2630	21	Coolant temp sensor	Secondary coolant circuit: Coolant circuit temperature too low	Diesel engine
2631	0	Boost pressure	SRC High Boost pressure sensor	Diesel engine
2631	1	Boost pressure	SRC low for Boost pressure sensor	Diesel engine
2631	11	None	no description available	Diesel engine
2631	14	Boost pressure	Charged Air Cooler pressure too high (even detection)	Diesel engine
2631	15	Boost pressure	Charged Air Cooler pressure too high (odd detection)	Diesel engine
2631	19	Boost pressure	CAN signal error for Boost pressure	Diesel engine
2631	2	Boost pressure	Ambient and Boost pressure are different at start	Diesel engine
2631	20	Boost pressure	Physical Range Check High error	Diesel engine
2631	21	Boost pressure	Physical Range Check Low error	Diesel engine
2631	31	Boost pressure	Over Boost Detection	Diesel engine
2632	3	Charged Air Bypass (intercooler) Valve	Short circuit to battery	Diesel engine
2632	4	Charged Air Bypass (intercooler) Valve	Short circuit to ground error	Diesel engine
2632	5	Charged Air Bypass (intercooler) Valve	Open load	Diesel engine
2632	6	Charged Air Bypass (intercooler) Valve	Over Temperature error	Diesel engine
2634	14	Actuator Relay	Power Relay for Smart Sensors and Actuators: Short Circuit to Battery error at the High Side	Diesel engine

dtc trouble codes diesel engine

2634	3	Actuator Relay	Power Relay for Smart Sensors and Actuators: Short Circuit to Battery error at the Low Side	Diesel engine
2634	31	Actuator Relay	Power Relay for Smart Sensors and Actuators: Over Temperature error at the Low Side	Diesel engine
2634	4	Actuator Relay	Power Relay for Smart Sensors and Actuators: Short Circuit to Ground error at the Low Side	Diesel engine
2634	5	Actuator Relay	Power Relay for Smart Sensors and Actuators: Open Load error at the Low Side	Diesel engine
2634	6	Actuator Relay	Power Relay for Smart Sensors and Actuators: Short Circuit to Ground error at the High Side	Diesel engine
2657	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EAC (Engine Auxiliary Coolant)	Diesel engine
2659	15	EGR Control	EGR rate too high	Diesel engine
2659	17	EGR Control	EGR rate too low	Diesel engine
2659	18	EGR Control	EGR low flow detected	Diesel engine
2659	7	EGR Control	EGR mass flow reduced due to sooting	Diesel engine
2791	3	EGR Valve	Short circuit to battery error for power stage	Diesel engine
2791	4	EGR Valve	Short circuit to ground error for power stage	Diesel engine
2791	5	EGR Valve	No load error for power stage	Diesel engine
2791	6	EGR Valve	Over temperature error	Diesel engine
2795	13	Turbocharger control	eVGT: Actuator offset detected	Diesel engine
2795	20	Turbocharger control	eVGT Actuator: Position deviation above maximum tolerance value	Diesel engine
2795	21	Turbocharger control	eVGT Actuator: Position deviation below minimum tolerance value	Diesel engine
2795	9	CAN Bus	Timeout Error of CAN-Receive-Frame SRA2EDC from eVGT Actuator	Diesel engine
2797	3	Injector	Bank0, short circuit	Diesel engine
2797	4	Injector	Short circuit to ground monitoring test in bank_0	Diesel engine
2797	9	Injector	Time out of SCG measurement_0	Diesel engine
2798	3	Injector	Bank1, short circuit	Diesel engine
2798	4	Injector	Short circuit to ground monitoring test in bank_1	Diesel engine
2798	9	Injector	Time out of SCG measurement_1	Diesel engine
2809	0	Air Filter Pressure Sensor	Sensor voltage above upper limit	Diesel engine
2809	1	Air Filter Pressure Sensor	Sensor voltage below lower limit	Diesel engine
2809	2	Air Filter Pressure Sensor	Measured pressure implausibly low	Diesel engine
2809	20	Air Filter Pressure Sensor	Physical Range Check High error	Diesel engine
2809	21	Air Filter Pressure Sensor	Physical Range Check Low error	Diesel engine
2883	19	CAN Bus	Message data length Error of CAN-Receive-Frame OHECS (Alternate Low idle/synchronization switch)	Diesel engine
2883	9	CAN Bus	Timeout Error of CAN-Receive-Frame OHECS message (Alternate Low idle/synchronization switch)	Diesel engine
2900	9	CAN Bus	Timeout Error of CAN-Receive-Frame Electronic Transmission Control 7 (ETC7: transmission engine crank enable)	Diesel engine
29	20	Accelerator Pedal	Signal Range Check High for APP2	Diesel engine
29	21	Accelerator Pedal	Signal Range Check Low for APP2	Diesel engine
30	0	Crankcase pressure	Blow By: Blow By filter filling high	Diesel engine
30	14	Blow by valve	Engine blow by protection activated	Diesel engine
3031	0	SCR Reagent Tank Temperature sensing	SRC high for Urea temperature sensor	Diesel engine
3031	1	SCR Reagent Tank Temperature sensing	SRC low for Urea temperature sensor	Diesel engine
3031	11	SCR Temp Sensing	Urea Tank Temperature: system error	Diesel engine
3031	14	SCR Reagent Tank Temperature sensing	Diagnostic Fault Check for Physical Signal below minimum limit	Diesel engine
3031	16	SCR Temp Sensing	Urea Tank Temperature: SRC high error	Diesel engine
3031	18	SCR Temp Sensing	Urea Tank Temperature: SRC low error	Diesel engine
3031	19	SCR Reagent Tank Temperature sensing	Signal error for CAN message	Diesel engine
3031	20	SCR Temp Sensing	UREA Tank Temperature: Tank temperature sensor plausibility check failed (> max drift)	Diesel engine
3031	21	SCR Temp Sensing	UREA Tank Temperature: Tank temperature sensor plausibility check failed (< min drift)	Diesel engine
3031	31	SCR Reagent Tank Temperature sensing	Diagnostic Fault Check for Physical Signal above maximum limit	Diesel engine
3031	6	SCR Tank heater	Urea Tank temperature: overheating of the AdBlue tank	Diesel engine
3064	17	DPF model plausibility	DPF efficiency below minimal threshold	Diesel engine
3064	7	DPF model plausibility	DPF model plausibility: Diagnostic fault check for damaged particulate filter	Diesel engine
3216	14	NOx Sensing	NOx Sensor Up Stream: Sensor Implausible	Diesel engine

dtc trouble codes diesel engine

3216	2	NOx Sensor (CAN)	NOx Sensor Upstream (CAN): Nox Concentration invalid	Diesel engine
3216	31	NOx Sensor (CAN)	NOx Sensor Upstream (CAN): NOx Sensor detects incorrect supply	Diesel engine
3220	12	SCR NOx calculation	SCR NOx calculation: multi signal defects in NOx estimation	Diesel engine
3222	12	NOx Sensor (CAN)	NOx Sensor Upstream (CAN): Sensor Heater performance insufficient	Diesel engine
3223	5	CAN NOx Sensor	CAN NOx Sensor Upstream: Open Circuit Error for Nox Sensor upstream	Diesel engine
3223	6	CAN NOx Sensor	CAN NOx Sensor Upstream: Short Circuit Error for Nox Sensor upstream	Diesel engine
3224	12	NOx Sensor (CAN)	NOx Sensor Upstream: Self diagnosis not possible (old sensor type installed)	Diesel engine
3224	2	NOx Sensing	NOx upstream Sensor: Lambda value measurement from NOx upstream sensor incorrect	Diesel engine
3224	20	NOx Sensor (CAN)	Nox Sensor Upstream: Self diagnosis result above higher limit	Diesel engine
3224	21	NOx Sensor (CAN)	NOx Sensor Upstream: Self diagnosis result below lower limit	Diesel engine
3224	31	NOx Sensor (CAN)	NOx Sensor Upstream: Self diagnosis on smart sensor aborted	Diesel engine
3224	5	NOx Sensor (CAN)	NOx Sensor Upstream (CAN): Open Wire error detected by sensor	Diesel engine
3224	6	NOx Sensor (CAN)	NOx Sensor Upstream (CAN): Short circuit error detected by sensor	Diesel engine
3224	9	CAN NOx Sensor	CAN NOx Sensor Upstream: Timeout Error of CAN-Receive-Frame NOx sensor upstream (NOxSens: NOX concentration,Lambda function,Oxygen function, sensor status, senso	Diesel engine
3226	10	NOx Sensing	NOx sensor: measured value stuck	Diesel engine
3226	2	NOx Sensing	NOx Sensor Down Stream: Sensor Implausible	Diesel engine
3226	31	NOx Sensor (CAN)	NOx Sensor detects incorrect supply	Diesel engine
3232	12	NOx Sensor (CAN)	Sensor Heater performance insufficient	Diesel engine
3232	5	CAN NOx Sensor	Open Circuit Error for Nox Sensor	Diesel engine
3232	6	CAN NOx Sensor	Short Circuit Error for Nox Sensor	Diesel engine
3234	12	NOx Sensor (CAN)	Self diagnosis not possible (old sensor type installed)	Diesel engine
3234	14	NOx Sensor (CAN)	Self diagnosis on smart sensor aborted	Diesel engine
3234	2	NOx Sensing	NOx Sensor: Lambda value measurement from NOx sensor incorrect	Diesel engine
3234	20	NOx Sensor (CAN)	Self diagnosis result above higher limit (positive drif)	Diesel engine
3234	21	NOx Sensor (CAN)	Self diagnosis result below lower limit	Diesel engine
3234	5	NOx Sensor (CAN)	Open circuit error detected by sensor	Diesel engine
3234	6	NOx Sensor (CAN)	Short circuit error detected by sensor	Diesel engine
3242	0	DPF Temp Monitoring	Particle Filter Upstream Temperature Sensor: Signal Range Check High	Diesel engine
3242	1	DPF Temp Monitoring	Particle Filter Upstream Temperature Sensor: Signal Range Check Low	Diesel engine
3242	14	SCR Temp monitoring	SCR Catalyst Downstream Temperature: deviation from other sensors at cold start	Diesel engine
3242	2	DPF Temp Monitoring	Particle Filter Upstream Temperature Sensor: Plausibility of particle filter upstream temperature	Diesel engine
3242	20	DPF Temp Monitoring	Particle Filter Upstream Temperature Sensor: Physical Signal above maximum limit	Diesel engine
3242	21	DPF Temp Monitoring	Particle Filter Upstream Temperature Sensor: Physical Signal below minimum limit	Diesel engine
3242	31	SCR Temp monitoring	SCR Catalyst Upstream Temperature: Measured value deviating from modelled temperature	Diesel engine
3242	9	CAN Bus	Timeout Error of CAN-Transmit-Frame AT1IG2 (Aftertreatment Intake Gas Temperature)	Diesel engine
3246	0	DPF Temp Sensing	Particle Filter Downstream Temperature Sensor: Signal value above maximum limit	Diesel engine
3246	1	DPF Temp Sensing	Particle Filter Downstream Temperature Sensor: Signal value below minimum limit	Diesel engine
3246	20	DPF Temp Sensing	Particle Filter Downstream Temperature Sensor: Physical Signal above maximum limit	Diesel engine
3246	21	DPF Temp Sensing	Particle Filter Downstream Temperature Sensor: Physical Signal below minimum limit	Diesel engine
3251	0	DPF pressure sensing	DPF filter differential pressure sensor: sensor reporting SRC high information	Diesel engine
3251	0	DPF pressure sensing	DPF differential pressure sensor: SRC value above maximum limit	Diesel engine
3251	1	DPF pressure sensing	DPF filter differential pressure sensor: sensor reporting SRC low information	Diesel engine
3251	1	DPF pressure sensing	DPF differential pressure sensor: SRC value below minimum limit	Diesel engine
3251	14	DPF pressure sensing	DPF filter differential pressure sensor: sensor reports an internal fault	Diesel engine
3251	15	DPF pressure monitoring	Differential pressure over DPF higher then expected	Diesel engine
3251	16	DPF pressure monitoring	Differential pressure over particulate filter above maximum	Diesel engine
3251	2	DPF pressure monitoring	Fault check for the pressure sensor plausibility	Diesel engine
3251	3	DPF pressure sensing	DPF filter differential pressure sensor: sensor reporting over voltage error	Diesel engine
3251	4	DPF pressure sensing	DPF filter differential pressure sensor: sensor reporting underr voltage error	Diesel engine
3251	7	DPF pressure sensing	DPF filter differential pressure sensor: wrong sensor type installed	Diesel engine
3353	11	None	no description available	Diesel engine
3353	12	Alternator	Smart alternator functionality inhibited by vehicle controller	Diesel engine
3353	14	Alternator	Smart Alternator 1 reports an electrical fault status	Diesel engine
3353	19	Alternator	Smart Alternator 1 reports intermittent LIN node problems	Diesel engine
3353	31	LIN-Bus	Smart Alternator 1 reports a time out error	Diesel engine

dtc trouble codes diesel engine

3353	6	Alternator	Smart Alternator 1 reports an over temperature fault status	Diesel engine
3353	7	Alternator	Smart Alternator 1 reports a mechanical fault status	Diesel engine
3353	9	CAN Bus	Timeout Error of CAN-Transmit-Frame AS message (Alternator Status)	Diesel engine
3354	14	Alternator	Smart Alternator 2 reports an electrical fault status	Diesel engine
3354	19	Alternator	Smart Alternator 2 reports intermittent LIN node problems	Diesel engine
3354	31	LIN-Bus	Smart Alternator 2 reports a time out error	Diesel engine
3354	6	Alternator	Smart Alternator 2 reports an over temperature fault status	Diesel engine
3354	7	Alternator	Smart Alternator 2 reports a mechanical fault status	Diesel engine
3355	14	Alternator	Smart Alternator 3 reports an electrical fault status	Diesel engine
3355	19	Alternator	Smart Alternator 3 reports intermittent LIN node problems	Diesel engine
3355	31	LIN-Bus	Smart Alternator 3 reports a time out error	Diesel engine
3355	6	Alternator	Smart Alternator 3 reports an over temperature fault status	Diesel engine
3355	7	Alternator	Smart Alternator 3 reports a mechanical fault status	Diesel engine
3360	14	SCR Reagent Heating	UREA Heater Control Unit: Missing voltage detected	Diesel engine
3360	3	SCR Reagent Heating	UREA Heater Control Unit: Over Voltage Error detected	Diesel engine
3360	31	SCR Reagent Heating	UREA Heater Control Unit: Non Volatile Memory error detected	Diesel engine
3360	4	SCR Reagent Heating	UREA Heater Control Unit: Under Voltage Error detected	Diesel engine
3360	6	SCR Reagent Heating	UREA Heater Control Unit: Over Temperature Error detected	Diesel engine
3361	12	SCR Temp Sensing	Supply module Temperature: Temperature signal in failure range	Diesel engine
3361	14	SCR Reagent Pump	Supply Module Temperature: Duty cycle signal disturbed (faulty PWM signal)	Diesel engine
3361	2	SCR Temp monitoring	Supply module Temperature: Temperature signal in invalid range	Diesel engine
3361	31	SCR Reagent Pump	Supply Module Temperature: Non availability after temperature measurement	Diesel engine
3361	8	SCR Reagent Pump	Supply Module Temperature: Duty cycle signal disturbed (Time period outside specified range)	Diesel engine
3363	12	SCR Tank heater	SCR Tank heater: Urea tank heater is faulty	Diesel engine
3363	3	SCR Reagent Heating	Short circuit to battery error (Reagent Tank Heater)	Diesel engine
3363	31	SCR Tank heater	Urea Tank Heater: Heater insufficient/defective	Diesel engine
3363	4	SCR Reagent Heating	Short circuit to ground error (Reagent Tank Heater)	Diesel engine
3363	5	SCR Reagent Heating	No load error (Reagent Tank Heater)	Diesel engine
3363	6	SCR Reagent Heating	Over Temperature error of Urea Tank Heater Actuator power stage	Diesel engine
3363	7	SCR Temp Sensing	SCR Temp Monitoring: wrong mounting of temperature sensors	Diesel engine
3364	1	SCR Reagent Quality	DEF quality sensor: Reducing agent concentration outside range	Diesel engine
3364	3	SCR Reagent Quality	Error because of too high quality of reducing agent	Diesel engine
3364	31	SCR Reagent Quality	Urea quality: Inadequate quality of reducing agent detected after urea refill	Diesel engine
3364	4	SCR Reagent Quality	Error because of too low quality of reducing agent	Diesel engine
3416	2	None	Passenger door main sensor implausible	Diesel engine
3464	19	CAN Bus	TVA Actuator: Incorrect data length of CAN-Receive-Frame TVA2EDC from TVA Actuator	Diesel engine
3464	31	Intake Throttle Valve	TVA Actuator: Loss of communication error reported by actuator via CAN message	Diesel engine
3507	14	Actuator Relay	Short circuit to ground error at high side actuator relay with index x = 1	Diesel engine
3507	3	Actuator Relay	Short circuit to battery error at high side actuator relay with index x = 2	Diesel engine
3507	31	Actuator Relay	Short circuit to battery error at high side actuator relay with index x = 3	Diesel engine
3507	4	Actuator Relay	Short circuit to ground error at high side actuator relay with index x = 0	Diesel engine
3507	6	Actuator Relay	Short circuit to ground error at high side actuator relay with index x = 2	Diesel engine
3508	14	Actuator Relay	Short circuit to battery error at high side actuator relay with index x = 0	Diesel engine
3508	3	Actuator Relay	External Actuator Relay 1: Short circuit to battery at low side power stage	Diesel engine
3508	31	Actuator Relay	Short circuit to battery error at high side actuator relay with index x = 1	Diesel engine
3508	4	Actuator Relay	External Actuator Relay 1: Short circuit to ground at low side power stage	Diesel engine
3508	5	Actuator Relay	External Actuator Relay 1: Open Load error at low side power stage	Diesel engine
3508	6	Actuator Relay	External Actuator Relay 1: Over temperature error at low side power stage	Diesel engine
3509	12	ECU Power Stage 1	Error Sensor supply for sensors (if mounted): SCR pressure, HCl press. and temp., Acc.pedal 2, Boost press. and temp., Oil press.and temp., EGR diff.pressure	Diesel engine
3509	2	ECU Voltage Supply	Error sensors supplies voltage tracker	Diesel engine
3510	12	ECU Power Stage 2	Error Sensor supply for sensors (if mounted): Acc.pedal 1, fuel pre filter clogging, Fuel filter deltaP, Water pump clutch, EGR throttle, P3 sensor	Diesel engine
3511	12	ECU Power Stage 3	Error Sensor supply for sensors (if mounted): Humidity sensor (temp.and humidity), Rail pressure, Throttle position	Diesel engine
3515	2	SCR Reagent Quality	DEF quality sensor: Temperature not plausible at cold start, sensor possibly dismantled	Diesel engine
3515	31	SCR Reagent Quality	DEF quality sensor: Temperature not plausible, sensor possibly dismantled	Diesel engine
3516	0	SCR Reagent Quality	UREA quality sensor: Concentration value SRC high	Diesel engine

dtc trouble codes diesel engine

3516	1	SCR Reagent Quality	UREA quality sensor: Concentration value SRC low	Diesel engine
3516	12	SCR Reagent Quality	UREA quality sensor: sensor reports self diagnostic error for concentration signal	Diesel engine
3516	3	SCR Reagent Quality	UREA quality sensor: Concentration signal Short Circuit to Battery	Diesel engine
3516	4	SCR Reagent Quality	UREA quality sensor: Concentration signal Short Circuit to Ground	Diesel engine
3516	5	SCR Reagent Quality	UREA quality sensor: Concentration signal Open Load error	Diesel engine
3518	2	SCR Reagent Quality	DEF quality sensor: Reducing agent conductivity outside range	Diesel engine
3521	19	CAN Bus	Incorrect data length Error of CAN-Receive-Frame CRI1	Diesel engine
3521	31	SCR Reagent Quality	DEF quality sensor: critical fluid identified	Diesel engine
3521	9	SCR Control	CAN Bus: Timeout Error of CAN-Receive-Frame CRI1 (Catalyst reagent information)	Diesel engine
3525	0	DPF model plausibility	Fault path for maximum number of locked regenerations	Diesel engine
3525	15	DPF model plausibility	Fault path for maximum number of locked regenerations for HD	Diesel engine
3525	16	DPF model plausibility	Fault path for maximum number of locked regenerations for HD	Diesel engine
354	0	Intake Air humidity Sensor	Defect Fault Check for Signal value above maximum limit	Diesel engine
354	1	Intake Air humidity Sensor	SRC low for Induction Air Humidity	Diesel engine
354	19	Intake Air humidity Sensor	DFC for CAN message	Diesel engine
354	2	Intake Air humidity Sensor	Signal plausibility failure	Diesel engine
354	20	Intake Air humidity Sensor	Physical signal above maximum limit	Diesel engine
354	21	Intake Air humidity Sensor	Physical signal below minimum limit	Diesel engine
354	31	Intake Air humidity Sensor	SRC high for Induction Air Humidity	Diesel engine
3543	3	Afterrun lamp	Post Engine Operation Lamp: Short circuit to battery	Diesel engine
3543	4	Afterrun lamp	Post Engine Operation Lamp: Short circuit to ground	Diesel engine
3543	5	Afterrun lamp	Post Engine Operation Lamp: Open Load error	Diesel engine
3543	6	Afterrun lamp	Post Engine Operation Lamp: Over Temperature error	Diesel engine
355	0	DPF Lube Oil monitoring	Fuel in oil has exceeded the limit for safe driveability	Diesel engine
355	14	DPF Lube Oil monitoring	Soot in oil has exceeded the Maximum limit	Diesel engine
355	15	DPF Lube Oil monitoring	Fuel in oil has exceeded the warning limit	Diesel engine
355	16	DPF Lube Oil monitoring	Fuel in oil has exceeded the Maximum limit	Diesel engine
3589	3	Oil Pump	Short circuit to battery	Diesel engine
3589	31	Oil Pump	Over Temperature error	Diesel engine
3589	4	Oil Pump	Short circuit to ground	Diesel engine
3589	5	Oil Pump	Open Load error	Diesel engine
3597	3	ECU Voltage Supply	Reported OverVoltage of Supply	Diesel engine
3597	4	ECU Voltage Supply	Reported UnderVoltage of Supply	Diesel engine
3606	14	None	Engine Idle Shut Down	Diesel engine
3606	31	None	Engine Protection Shut Down	Diesel engine
3607	14	ECU internal Check	ECU internal Check: Injection cut off demand (ICO) for shut off coordinator	Diesel engine
3695	2	DPF emergency regen.switch	Not plausible switch value	Diesel engine
3695	31	None	Particulate Filter Emergency regeneration Inhibition Switch implausible	Diesel engine
3696	0	DPF emergency regen.switch	Particulate filter service regeneration: number of regeneration requested via vehicle button exceeded limit	Diesel engine
3696	7	DPF emergency regen.switch	Particulate filter emergency regeneration switch stuck closed	Diesel engine
3697	3	DPF Control Lamp	Short circuit to battery error	Diesel engine
3697	4	DPF Control Lamp	Short circuit to ground error	Diesel engine
3697	5	DPF Control Lamp	No load error	Diesel engine
3697	6	DPF Control Lamp	Over temperature error	Diesel engine
3701	14	DPF model plausibility	Forced Regeneration Error	Diesel engine
3701	31	Torque Limitation active	Torque limitation caused by particulate filter	Diesel engine
3701	7	DPF model plausibility	DPF filter is clogged	Diesel engine
3712	31	Particulate filter service regeneration	Regeneration stopped due to system error	Diesel engine
3719	16	DPF model plausibility	Calculated soot mass above threshold	Diesel engine
3719	17	DPF model plausibility	Filter soot accumulation below expected minimum	Diesel engine
3719	9	CAN Bus	Timeout Error of CAN-Transmit-Frame AT1S (Particulate filter soot/ash load)	Diesel engine
3720	16	DPF model plausibility	Ash load in DPF has exceeded the limit	Diesel engine
3726	15	DPF model plausibility	Fault path for maximum number of locked passive regenerations	Diesel engine
3727	31	DPF emergency regen.switch	Particulate filter service regeneration: regeneration requested via vehicle button interrupted too many times	Diesel engine
3826	0	SCR Reagent Feeding	Reagent Consumption Deviation: Ratio between Pump speed/Dosing Valve duty cycle above maximum	Diesel engine

dtc trouble codes diesel engine

3826	1	SCR Reagent Feeding	Reagent Consumption Deviation: Ratio between Pump speed/Dosing Valve duty cycle below minimum	Diesel engine
3826	20	SCR Reagent Feeding	Reagent Consumption Deviation: Ratio between Pump speed/Dosing Valve duty cycle too high	Diesel engine
3826	21	SCR Reagent Feeding	Reagent Consumption Deviation: Ratio between Pump speed/Dosing Valve duty cycle too low	Diesel engine
3826	31	SCR Reagent Feeding	Reagent Consumption Deviation: Dosing module leak (consumption too high)	Diesel engine
3826	7	SCR Reagent Feeding	Reagent Consumption Deviation: Dosing valve blocked (consumption too low)	Diesel engine
3936	19	CAN Bus	Timeout Error of CAN-Transmit-Frame CNH_FT message	Diesel engine
3936	9	CAN Bus	Timeout Error of CAN-Transmit-Frame DPFC1	Diesel engine
4000	31	Exhaust Flap actuator	Engine brake active at vehicle stand still	Diesel engine
4009	3	Fuel filter heater	Short circuit to battery error in power stage of fuel filter heating	Diesel engine
4009	4	Fuel filter heater	Short circuit to ground error in power stage of fuel filter heating	Diesel engine
4009	5	Fuel filter heater	No load error in power stage of fuel filter heating	Diesel engine
4009	6	Fuel filter heater	Over Temperature error at ECM power stage	Diesel engine
4076	0	Coolant temp sensor	SRC High for Engine coolant temperature(down stream)	Diesel engine
4076	1	Coolant temp sensor	SRC low for Engine coolant temperature(down stream)	Diesel engine
4076	14	Coolant temp sensor	Engine coolant temperature exceedingly high (3rd detection)	Diesel engine
4076	16	Coolant temp sensor	Engine coolant temperature exceedingly high (2nd detection)	Diesel engine
4076	2	Coolant temp sensor	Charged Air Cooler: Coolant circuit temperature deviating	Diesel engine
4090	0	Too High NOx Emissions	Catalyst efficiency lower than first NOx production threshold level	Diesel engine
4090	18	Too High NOx Emissions	Catalyst efficiency lower than second NOx production threshold level	Diesel engine
4092	0	EGR: Too High NOx emission	Hard limits of the NOx monitoring	Diesel engine
4092	16	EGR: Too High NOx emission	Soft limits of the NOx monitoring	Diesel engine
411	0	EGR Diff.Pressure Sensor	Signal Range Check high error	Diesel engine
411	1	EGR Diff.Pressure Sensor	Signal Range Check low error	Diesel engine
411	2	EGR Diff.Pressure Sensor	Non plausible error	Diesel engine
411	20	EGR Diff.Pressure Sensor	Physical Signal above maximum limit	Diesel engine
411	21	EGR Diff.Pressure Sensor	Physical Signal below minimum limit	Diesel engine
4113	12	CAN Bus MIL	DFC for MIL LAMP Error	Diesel engine
412	0	EGR Temperature Sensor	EGR Cooler Temperature: SRC high for EGR cooler downstream temperature	Diesel engine
412	1	EGR Temperature Sensor	EGR Cooler Temperature: SRC low for EGR cooler downstream temperature	Diesel engine
412	2	EGR Temperature Sensor	EGR Cooler Temperature: Failed plausibility check at ECU start of EGR cooler downstream temperature	Diesel engine
412	20	EGR Temperature Sensor	EGR Cooler Temperature: Physical Signal above maximum limit	Diesel engine
412	21	EGR Temperature Sensor	EGR Cooler Temperature: Physical Signal below minimum limit	Diesel engine
412	31	EGR Cooler	EGR Cooler: Temperature deviation of intake air after EGR	Diesel engine
4175	31	DPF emergency regen.switch	Particulate filter service regeneration: regeneration started via vehicle switch	Diesel engine
4193	3	Coolant pump	Low Temperature Coolant Pump actuator: Short Circuit to Battery error on the output power stage	Diesel engine
4193	4	Coolant pump	Low Temperature Coolant Pump actuator: Short Circuit to Ground error on the output power stage	Diesel engine
4193	5	Coolant pump	Low Temperature Coolant Pump actuator: Open Load error on the output power stage	Diesel engine
4193	6	Coolant pump	Low Temperature Coolant Pump actuator: Over Temperature error on the output power stage	Diesel engine
4207	14	CAN Bus	Checksum error on TSC1VE frame message	Diesel engine
4207	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1VE message from Vehicle Controller	Diesel engine
4207	31	CAN Bus	Active Time out for Torque Speed Control TSC1VE message	Diesel engine
4207	9	CAN Bus	Passive Time out for Torque Speed Control TSC1VE message	Diesel engine
4213	31	-	Check of engine starting problems	Diesel engine
4225	16	SCR Control	Too low catalyst efficiency	Diesel engine
4256	1	Battery voltage	Battery voltage at engine start too low for rail PCV control, engine started with rail MeUn control	Diesel engine
4331	14	SCR Reagent Feeding	DFC for PUQP function when "FAULT" result occur	Diesel engine
4331	16	SCR Dosing valve	SCR Dosing system: CDM - Deviation from the dosing quantity exceeded 20%	Diesel engine
4331	2	SCR Dosing valve	Deviation from the dosing quantity detected during Test	Diesel engine
4332	9	CAN Bus	CAN Bus: Timeout Error of CAN-Receive-Frame DM1DCU (DCU errors)	Diesel engine
4334	0	SCR Reagent pressure sensor	Urea Pump module pressure sensor: Signal above maximum limit.	Diesel engine
4334	1	SCR Reagent pressure sensor	Urea Pump module pressure sensor: Signal below minimum limit.	Diesel engine
4334	10	SCR Reagent Feeding	SCR monitoring: pressure stabilization error	Diesel engine
4334	11	SCR Reagent pressure sensor	SCR Reagent pressure sensor: Drift to too high pressure	Diesel engine
4334	12	SCR Reagent Feeding	Pressure reduction error	Diesel engine
4334	14	SCR Reagent Feeding	SCR monitoring: general pressure drop check error	Diesel engine

dtc trouble codes diesel engine

4334	15	SCR Reagent Feeding	SCR Reagent Feeding: UREA pressure too high	Diesel engine
4334	16	SCR Reagent Feeding	SCR Reagent Feeding: UREA pressure too high (2nd level)	Diesel engine
4334	17	SCR Reagent Feeding	SCR Reagent Feeding: UREA pressure too low	Diesel engine
4334	19	SCR Reagent pressure sensor	Urea Pump module pressure sensor: CAN message reports a defect	Diesel engine
4334	20	SCR Reagent pressure sensor	Urea Pressure sensor Pump Module: Physical Signal above maximum limit	Diesel engine
4334	21	SCR Reagent pressure sensor	Urea Pressure sensor Pump Module: Physical Signal below minimum limit	Diesel engine
4334	31	SCR Reagent pressure sensor	SCR Reagent pressure sensor: Drift to too low pressure	Diesel engine
4337	2	SCR Reagent Heating	Error urea supply module temperature sensor dynamic plausibility	Diesel engine
4337	31	SCR Reagent Heating	Error urea supply module temperature sensor cold start plausibility	Diesel engine
4354	14	SCR Reagent Heating	Pressure line heater error and temperature condition to perform an afterrun	Diesel engine
4354	3	SCR Reagent Heating	Short circuit to battery error (Pressure Line Heater)	Diesel engine
4354	4	SCR Reagent Heating	Short circuit to ground error (Pressure Line Heater)	Diesel engine
4354	5	SCR Reagent Heating	No load error (Pressure Line Heater)	Diesel engine
4354	6	SCR Reagent Heating	Over Temperature error of Urea Pressure Line Heater Actuator power stage	Diesel engine
4355	16	SCR Reagent Heating	Backflow Line Heater: Current feedback too high	Diesel engine
4355	18	SCR Reagent Heating	Backflow Line Heater: Current feedback too high	Diesel engine
4355	20	SCR Reagent Heating	Backflow Line Heater: Voltage feedback too high	Diesel engine
4355	21	SCR Reagent Heating	Backflow Line Heater: Voltage feedback too low	Diesel engine
4355	3	SCR Reagent Heating	Urea Backflow Line Heater Actuator power stage: Short Circuit to Battery	Diesel engine
4355	31	SCR Reagent Heating	Urea Backflow Line Heater Field Effect Transistor error	Diesel engine
4355	4	SCR Reagent Heating	Urea Backflow Line Heater Actuator power stage: Short Circuit to Ground	Diesel engine
4355	5	SCR Reagent Heating	Urea Backflow Line Heater Actuator power stage: Open Load error	Diesel engine
4356	3	SCR Reagent Heating	Urea Suction Line Heater Actuator power stage: Short Circuit to Battery	Diesel engine
4356	4	SCR Reagent Heating	Urea Suction Line Heater Actuator power stage: Short Circuit to Ground	Diesel engine
4356	5	SCR Reagent Heating	Urea Suction Line Heater Actuator power stage: Open Load error	Diesel engine
4356	6	SCR Reagent Heating	Over Temperature error of Urea Suction Line Heater Actuator power stage	Diesel engine
4360	0	SCR Temp Sensor Upstream	SCR Catalyst Temperature sensing: SRC high for Catalyst temperature upstream	Diesel engine
4360	1	SCR Temp Sensor Upstream	SCR Catalyst Temperature sensing: SRC low for Catalyst temperature upstream	Diesel engine
4360	12	SCR Temp Sensor Upstream	SCR Catalyst Temperature monitoring: Upstream temperature sensor connected via CAN reports an error	Diesel engine
4360	14	SCR Temp Sensor Upstream	Error SCR catalyst upstream temperature sensor static plausibility	Diesel engine
4360	15	SCR Temp Sensor Upstream	Error SCR catalyst upstream temperature sensor plausibility max threshold	Diesel engine
4360	17	SCR Temp Sensor Upstream	Error SCR catalyst upstream temperature sensor plausibility min threshold	Diesel engine
4360	2	SCR Temp Sensor Upstream	SCR Catalyst Downstream Temperature: Measured value deviating from modelled temperature	Diesel engine
4360	20	SCR Temp Sensor Upstream	SCR Catalyst Temperature monitoring: Upstream temperature above physical maximum value	Diesel engine
4360	21	SCR Temp Sensor Upstream	SCR Catalyst Temperature monitoring: Upstream temperature below physical minimum value	Diesel engine
4363	0	SCR Temp Sensor Downstream	SCR Catalyst Temperature sensing: SRC high for Catalyst temperature downstream	Diesel engine
4363	1	SCR Temp Sensor Downstream	SCR Catalyst Temperature sensing: SRC low for Catalyst temperature downstream	Diesel engine
4363	15	SCR Temp Sensor Downstream	Info: Urea catalyst downstream Temperature too high (even detection)	Diesel engine
4363	16	SCR Temp Sensor Downstream	Info: Urea catalyst downstream Temperature too high (odd detection)	Diesel engine
4363	2	SCR Temp Sensor Downstream	Error SCR catalyst downstream temperature sensor static plausibility	Diesel engine
4363	20	SCR Temp Sensor Downstream	SCR Catalyst Temperature monitoring: Downstream temperature above physical maximum value	Diesel engine
4363	21	SCR Temp Sensor Downstream	SCR Catalyst Temperature monitoring: Downstream temperature below physical minimum value	Diesel engine
4363	31	SCR Temp Sensor Downstream	SCR Catalyst Temperature monitoring: Downstream temperature sensor connected via CAN reports an error	Diesel engine
4374	0	SCR Reagent Pump	SCR Reagent Pump: Permanent Pump Motor Speed Deviation	Diesel engine
4374	16	SCR Reagent Pump	SCR Reagent Pump: Pump motor speed deviation	Diesel engine
4376	14	SCR Reagent Feeding	No emptying of the system at the end of the previous driving cycle	Diesel engine
4376	2	SCR Reagent Feeding	SCR monitoring: general backflow line plausibility error	Diesel engine
4376	3	SCR Reverting Valve	Short circuit to battery error	Diesel engine
4376	4	SCR Reverting Valve	Short circuit to ground error	Diesel engine
4376	5	SCR Reverting Valve	No load error	Diesel engine
4376	6	SCR Reverting Valve	DFC for Over Temperature of urea reverting valve actuator power stage	Diesel engine
4376	7	SCR Reverting Valve	SCR Reverting Valve: Reverting Valve is Blocked closed	Diesel engine
4377	0	SCR Control	NH3 slip above second limit	Diesel engine
4377	11	NH3 Sensor	Invalid NH3 or NO2 Signal	Diesel engine
4377	12	NH3 Sensor	Electrical problem	Diesel engine

dtc trouble codes diesel engine

4377	13	NH3 Sensor	Trim factor above upper limit	Diesel engine
4377	14	NH3 Sensor	Invalid sensor temperature	Diesel engine
4377	15	NH3 Sensor	Trim factor variation above upper limit	Diesel engine
4377	16	SCR Control	NH3 slip above first limit	Diesel engine
4377	17	NH3 Sensor	Trim factor variation below lower limit	Diesel engine
4377	18	NH3 Sensor	Trim factor below lower limit	Diesel engine
4377	19	CAN Bus	Incorrect data length of CAN-Receive-Frame NH3Sens from NH3 Sensor	Diesel engine
4377	2	NH3 Sensor	Plausibility error between NH3/NOx Signal of NH3 sensor	Diesel engine
4377	31	NH3 Sensor	Sensor is drifted	Diesel engine
4377	7	SCR Control	NH3 slip	Diesel engine
4377	9	CAN Bus	Timeout Error of CAN-Receive-Frame NH3Sens from NH3 Sensor	Diesel engine
4378	12	NH3 Sensor	Internal open load or short circuit error on measuring cell line	Diesel engine
4378	2	NH3 Sensor	Sensor not mounted in correct position (NH3 == 0 constantly)	Diesel engine
4378	9	CAN Bus	CAN Bus: Timeout Error of CAN-Receive-Frame NH3Fac from NH3 sensor	Diesel engine
4380	12	NH3 Sensor	Internal Short circuit or open load error on trim resistor line	Diesel engine
4380	4	NH3 Sensor	Internal open load or short circuit error on ground line	Diesel engine
4382	3	NH3 Sensor	Internal Short circuit on heater line (overheated Sensor)	Diesel engine
4382	4	NH3 Sensor	Internal Short circuit on heater line (underheated Sensor)	Diesel engine
4382	7	NH3 Sensor	Sensor heater defective	Diesel engine
4383	12	NH3 Sensor	Internal sensor heater supply failure (CAN communication monitoring - NH3 sensor reports an error related to power supply of heater or sensor, message via CAN)	Diesel engine
4383	31	NH3 Sensor	Internal sensor heater control failure	Diesel engine
4383	4	NH3 Sensor	Internal Short circuit or open load error on temperature cell input line	Diesel engine
4425	31	SCR Control	NOx emission too high	Diesel engine
4451	0	SCR Reagent Feeding	Desired Urea quantity too high (odd detection)	Diesel engine
4451	16	SCR Reagent Feeding	Desired Urea quantity too high (even detection)	Diesel engine
4752	1	EGR Cooler	EGR cooler or Charged air pressure cooler efficiency low	Diesel engine
4752	16	EGR Cooler	Cooler efficiency low	Diesel engine
4752	18	EGR Cooler	Cooler efficiency low	Diesel engine
4752	7	EGR Cooler	EGR cooler bypass clogged	Diesel engine
4765	0	Oxicat Temp Sensing	Defect Fault Check for "signal value above maximum limit"	Diesel engine
4765	1	Oxicat Temp Sensing	Defect Fault Check for "signal value below minimum limit"	Diesel engine
4765	14	Oxicat Temp Monitoring	Oxidation Catalyst Upstream Temperature: deviation from other sensors at cold start	Diesel engine
4765	16	DPF Exhaust Temp control	Desired Temperature before Oxicat exceeded during DPF Regeneration	Diesel engine
4765	18	DPF Exhaust Temp control	Desired Temperature before Oxicat not reached during DPF Regeneration	Diesel engine
4765	2	Oxicat Temp Sensing	Defect Fault Check for "signal not plausible"	Diesel engine
4765	20	Oxicat Temp Sensing	Oxidation Catalyser Upstream Temperature Sensor: Physical Signal above maximum limit	Diesel engine
4765	21	Oxicat Temp Sensing	Oxidation Catalyser Upstream Temperature Sensor: Physical Signal below minimum limit	Diesel engine
4765	31	Oxicat Temp Monitoring	Oxicat Temp Monitoring: wrong mounting of temperature sensors	Diesel engine
4765	7	DPF Exhaust Temp control	Control for increased temperature before Oxicat active for too long time (too long DPF Regeneration time)	Diesel engine
4766	0	Oxicat Temp Sensing	Signal range check high	Diesel engine
4766	1	Oxicat Temp Sensing	Signal range check low	Diesel engine
4766	14	Oxicat Temp Monitoring	Oxidation Catalyst Upstream Temperature: Measured value deviating from modelled temperature	Diesel engine
4766	16	DPF Exhaust Temp control	Desired Temperature after Oxicat exceeded during DPF Regeneration	Diesel engine
4766	18	DPF Exhaust Temp control	Desired Temperature after Oxicat not reached during DPF Regeneration	Diesel engine
4766	2	SCR Temp monitoring	SCR Catalyst Upstream Temperature: deviation from other sensors at cold start	Diesel engine
4766	20	Oxicat Temp Sensing	Oxidation Catalyser Upstream Temperature Sensor: Physical Signal above maximum limit	Diesel engine
4766	21	Oxicat Temp Sensing	Oxidation Catalyser Upstream Temperature Sensor: Physical Signal below minimum limit	Diesel engine
4766	31	DPF Exhaust Temp control	Control for increased temperature after Oxicat active for too long time (too long DPF Regeneration time)	Diesel engine
4767	15	OxiCat	HC accumulation exceeded first warning threshold	Diesel engine
4767	16	OxiCat	HC accumulation exceeded second warning threshold	Diesel engine
4781	0	DPF model plausibility	Maximum soot mass in DPF exceeded	Diesel engine
4781	19	CAN Bus	Data Length Error of CAN-Receive-Frame DPF1S (Soot mass)	Diesel engine
4781	2	Decompression brake	Soot Sensor Error, invalid soot signal	Diesel engine
4781	20	DPF model plausibility	Deviation between pressure differential and soot load characteristics	Diesel engine

dtc trouble codes diesel engine

4781	21	DPF model plausibility	Deviation between pressure differential and soot load characteristics	Diesel engine
4781	31	CAN Bus	Timeout Error of CAN-Receive-Frame DPF1S message	Diesel engine
4781	9	CAN Bus	Timeout Error of CAN-Transmit-Frame DPF1STx message	Diesel engine
4814	0	Coolant Pump speed	Pump speed too high	Diesel engine
4814	1	Coolant Pump speed	Pump speed too low	Diesel engine
4814	8	Coolant Pump speed	Long period error (speed zero)	Diesel engine
5006	14	ECU Internal	Diagnostic fault check to report the error in overvoltage monitoring	Diesel engine
5006	31	ECU Internal	Diagnostic fault check to report the error in undervoltage monitoring	Diesel engine
5018	17	Oxicat Temp Monitoring	Active monitoring of the oxidation catalyst	Diesel engine
5018	18	Oxicat Temp Monitoring	Passive monitoring of the oxidation catalyst	Diesel engine
5018	31	Oxicat Temp Monitoring	Oxicat: Monitoring of OxiCat in Rapid Heat Up	Diesel engine
5027	2	NOx Sensor (CAN)	NOx Sensor upstream detects not plausible values for Lambda value	Diesel engine
5033	20	NOx Sensing	Drift error of NOx sensor value	Diesel engine
5034	2	NOx Sensor (CAN)	NOx Sensor detects not plausible values for Lambda value	Diesel engine
5055	17	Oil Lubricant	Oil viscosity (below a first threshold)	Diesel engine
5055	18	Oil Lubricant	Oil viscosity (below a second threshold)	Diesel engine
5080	31	CAN Bus	CAN Bus: Timeout Error of CAN-Transmit-Frame DLCC2 message (Direct Lamp Control Command 2)	Diesel engine
5080	9	CAN Bus	CAN Bus: Timeout Error of CAN-Transmit-Frame DLCC1 message (Direct Lamp Control Command 1)	Diesel engine
5082	3	Oil pressure lamp	Short circuit to battery	Diesel engine
5082	4	Oil pressure lamp	Short circuit to ground	Diesel engine
5082	5	Oil pressure lamp	Open Load error	Diesel engine
5082	6	Oil pressure lamp	Over Temperature error	Diesel engine
5083	3	Clnt Ctrl Lamp	Indicates Short Circuit to Battery	Diesel engine
5083	4	Clnt Ctrl Lamp	Indicates Short Circuit to Ground	Diesel engine
5083	5	Clnt Ctrl Lamp	Indicates No Load Error	Diesel engine
5083	6	Clnt Ctrl Lamp	Indicates Over Temperature Error	Diesel engine
5096	19	CAN Bus	Message data length Error of CAN-Receive-Frame DLCD1 (Direct Lamp Control)	Diesel engine
5096	2	OBd Lamp (MIL)	Instrument Cluster reports MIL defect via DLCD1 (Direct Lamp Control)	Diesel engine
5096	9	CAN Bus	Message Timeout Error of CAN-Receive-Frame DLCD1 (Direct Lamp Control)	Diesel engine
51	20	Intake Throttle Valve	TVA actuator: Feedback position positive deviation to high	Diesel engine
51	21	Intake Throttle Valve	TVA actuator: Feedback position ngative deviation to high	Diesel engine
518	14	Torque Limitation active	Torque limitation caused by engine brake	Diesel engine
518144	14	ECU Internal	Diagnostic fault check to report the engine speed error	Diesel engine
518144	31	ECU Internal	Diagnostic fault ccheck to report errors in query-/response-communication	Diesel engine
518144	9	ECU Internal	SPI communication timeout	Diesel engine
518145	31	ECU Internal	Diagnostic fault check to report errors in SPI-communication	Diesel engine
518145	9	ECU internal Check	Communication timeout from CPU to Monitoring Module	Diesel engine
518146	31	ECU internal Check	Too many SPI errors during Shut Off Path test execution.	Diesel engine
518146	9	ECU internal Check	Wrong set response time	Diesel engine
518147	31	ECU Internal	Diagnostic fault check to report that line to power stage supply is not working correct	Diesel engine
518147	9	ECU internal Check	OS timeout in the shut off path test. Failure setting the alarm task period.	Diesel engine
518148	31	ECU internal Check	Error during positive test	Diesel engine
518148	9	ECU Internal	Diagnostic fault check to report the timeout in the shut off path test	Diesel engine
518149	31	ECU Internal	Diagnostic fault check to report the error due to non plausibility in ZFC	Diesel engine
518149	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Electronic Engine Control 1 (EEC1: torque information)	Diesel engine
518150	31	ECU Internal	Diagnosis fault check to report the error to demand for an ICO due to an error in the Pol2 shut-off	Diesel engine
518150	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Electronic Engine Control 2 (EEC2: accelerator pedal information)	Diesel engine
518151	31	ECU Internal	Error in the plausibility of Pol3 efficiency.	Diesel engine
518151	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EFL_P1 frame (Engine Fluid Level/Pressure)	Diesel engine
518152	9	CAN Bus	Timeout Error of CAN-Transmit-Frame ENGTEMP: Engine temperatures (Coolant, Oil,Fuel)	Diesel engine
518153	9	CAN Bus	Timeout Error of CAN-Transmit-Frame IC1 (SAE J1939)	Diesel engine
518154	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC2FLP	Diesel engine
518155	19	CAN Bus	Incorrect data length of CAN-Transmit-Frame EDC2NH3	Diesel engine
518155	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC2NH3	Diesel engine
518156	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC to NOx Sensor (EDC2NOx: Engine operation status, engine speed,Dew point, exhaust temperatures)	Diesel engine

dtc trouble codes diesel engine

518157	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC to NOx Upstream Sensor (EDC2NOxUS: Engine operation status, engine speed,Dew point, exhaust temperatures)	Diesel engine
518158	31	ECU Internal	Diagnosis fault check to report the demand for normal mode due to an error in the Pol2 quantity	Diesel engine
518158	9	CAN Bus	Timeout Error of CAN-Transmit-Frame to Cruise Control Vehicle Speed Information	Diesel engine
518159	31	Injector	Number of injections is limited by system	Diesel engine
518159	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Water in Fuel Information	Diesel engine
518160	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC2EGR	Diesel engine
518161	31	ECU Internal	Diagnostic fault check to report the error due to torque comparison	Diesel engine
518161	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC2HCU	Diesel engine
518162	31	ECU Internal	Error due to injector EnergizingTime exceeding threshold at overrun	Diesel engine
518163	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC to SRA (eVGT actuator status and feedback position)	Diesel engine
518164	31	-	Injection quantity limited by Level2 correction	Diesel engine
518164	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC to TVA (set point and command status)	Diesel engine
518165	0	ECU Internal	Defect Fault Check for Signal value above maximum limit	Diesel engine
518165	31	-	Level 2 torque limitation corrected for stable idle speed is activated	Diesel engine
518165	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC2WPC to Water Pump Controller	Diesel engine
518166	31	ECU Internal	Defect Fault Check for activation of thermal management	Diesel engine
518166	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Electronic Engine Control 4 (EEC4: rated speed, rated power information)	Diesel engine
518167	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EFS frame (Engine Fuel or lube systems)	Diesel engine
518169	9	CAN Bus	Timeout Error of CAN-Transmit-Frame DSE	Diesel engine
518170	9	CAN Bus	Timeout Error of CAN-Transmit-Frame A1DOC message	Diesel engine
518171	9	CAN Bus	Timeout Error of CAN-Transmit-Frame A1SCRDSI1 message	Diesel engine
518172	9	CAN Bus	Timeout Error of CAN-Transmit-Frame A1SCREGT message	Diesel engine
518173	9	CAN Bus	Timeout Error of CAN-Transmit-Frame ACK message	Diesel engine
518174	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Ambient conditions (AmbCon, barometric pressure, ambient temperature)	Diesel engine
518175	9	CAN Bus	Timeout Error of CAN-Transmit-Frame message EGR_Indc (severity of inducements)	Diesel engine
518176	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EI message (Engine Information)	Diesel engine
518177	9	CAN Bus	Timeout Error of CAN-Transmit-Frame message ENG06a (warning provisions for filter clogging and torque limitation)	Diesel engine
518178	9	CAN Bus	Timeout Error of CAN-Transmit-Frame message ENG07	Diesel engine
518179	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Engine Retarder Configuration Broadcast Announce Message (EngRefCfgBAM)	Diesel engine
518180	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Engine Retarder Configuration Package (EngRefCfgPAC: retarder parameters)	Diesel engine
518181	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EOI (Engine Operating Information)	Diesel engine
518182	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Retarder information (ERC1)	Diesel engine
518183	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Fuel economy message (FIEco: fuel rate, instant fuel)	Diesel engine
518184	9	CAN Bus	Timeout Error of CAN-Transmit-Frame GPM12 message	Diesel engine
518185	19	CAN Bus	Incorrect data length of CAN-Transmit-Frame HRLFC (High Resolution Fuel Consumption)	Diesel engine
518185	9	CAN Bus	Timeout Error of CAN-Transmit-Frame A1SCRSl2 message (DEF Quantity)	Diesel engine
518186	9	CAN Bus	Timeout Error of CAN-Transmit-Frame HRLF (High Resolution fuel consumption)	Diesel engine
518187	9	CAN Bus	Timeout Error of CAN-Transmit-Frame ISCS	Diesel engine
518188	9	CAN Bus	Timeout Error of CAN-Transmit-Frame of Fuel Consumption (LFC)	Diesel engine
518189	9	CAN Bus	Timeout Error of CAN-Transmit-Frame of MVS (Maximum Vehicle speed for limiter)	Diesel engine
518190	19	CAN Bus	Incorrect data length of CAN-Transmit-Frame MVS (Maximum Vehicle Speed)	Diesel engine
518191	9	CAN Bus	Timeout Error of CAN-Transmit-Frame PA_E message	Diesel engine
518192	19	CAN Bus	Incorrect data length of CAN-Transmit-Frame PTOTx	Diesel engine
518192	9	CAN Bus	Timeout Error of CAN-Transmit-Frame PTOTx	Diesel engine
518193	9	CAN Bus	Timeout error of CAN-Transmit frame SERV (Service component Id. and service distance)	Diesel engine
518194	9	CAN Bus	Timeout error of CAN-Transmit-Frame Shut Down (ShutDwn)	Diesel engine
518195	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Urea Tank Information (TI1: fostered catalyst tank level, catalyst temperature)	Diesel engine
518196	9	CAN Bus	Timeout Error of CAN-Transmit-Frame IVECO proprietary EDC to Body Computer (EDC2BC)	Diesel engine
518197	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Electronic Retarder Controller 1 (ERC1)	Diesel engine
518198	9	CAN Bus	Timeout Error of CAN-Transmit-Frame to Dash Display (Fuel filter diff.pressure)	Diesel engine
518199	9	CAN Bus	Timeout Error of CAN-Transmit-Frame to Electronic Brake Controller	Diesel engine
518200	9	CAN Bus	Timeout Error of CAN-Transmit-Frame to Transmission Control message TC1	Diesel engine
518201	31	ECU Internal	Error caused by the malfunction of ECU switch off	Diesel engine
518201	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Vehicle Power (VEP1: battery voltage information)	Diesel engine
518202	9	CAN Bus	Timeout Error of CAN-Transmit-Frame EDC to PM Sensor	Diesel engine

dtc trouble codes diesel engine

518203	9	CAN Bus	Timeout Error of CAN-Transmit-Frame SCRSC	Diesel engine
518204	9	CAN Bus	Timeout Error of CAN-Transmit-Frame AT1IMG	Diesel engine
518205	9	CAN Bus	Timeout Error of CAN-Transmit-Frame CCSS (Speed limiter from data from EDC)	Diesel engine
518206	9	CAN Bus	Timeout Error of CAN-Transmit-Frame Electronic Engine Control 3 (EEC3: friction,desired speed, estimated engine parasitic losses)	Diesel engine
518207	9	CAN Bus	Timeout Error of CAN-Receive-Frame EEC3V for Estimated Parasitic Losses	Diesel engine
518210	19	CAN Bus	Data Length error for Receive Frame Electronic Engine Control 2 from vehicle controller (EEC2V: CAN IDs and characteristics)	Diesel engine
518210	9	CAN VTO	Timeout Error of CAN-Receive-Frame Electronic Engine Control 2 from vehicle controller (EEC2V: CAN IDs and characteristics)	Diesel engine
518211	19	CAN Bus	Incorrect Data Length of CAN-Receive-Frame PA_MC from VCM	Diesel engine
518212	19	CAN Bus	Incorrect data length of CAN-Receive frame RESET from vehicle controller	Diesel engine
518213	19	CAN Bus	Incorrect data length Error of CAN-Receive-Frame RxAmb (Ambient temperature) from VCM	Diesel engine
518217	31	ECU Internal	Diagnostic fault check to starter permission monitor	Diesel engine
518244	19	CAN Bus	Message data length Error of CAN-Receive-Frame ASR1 (Vehicle Speed Information)	Diesel engine
518244	9	CAN Bus	Timeout Error of CAN-Receive-Frame ASR1 (Vehicle Speed Information)	Diesel engine
518249	9	CAN Bus	Timeout Error of CAN-Receive-Frame Vehicle Control Module to EDC (VM2EDC: low/high Idle, Intermediate speed Gov.parameters)	Diesel engine
518250	19	CAN Bus	CAN-Receive-Frame of Advanced Emergency Braking System 1 (AEBS1) , wrong data length	Diesel engine
518250	9	CAN Bus	Timeout Error of CAN-Receive-Frame PA_MC from VCM	Diesel engine
518251	9	CAN Bus	Timeout of CAN-Receive frame RESET from vehicle controller	Diesel engine
518252	19	CAN Bus	CAN Receive Frame: Missed frame or wrong checksum for Electronic Engine Control #2 from Vehicle Controller (EEC2V)	Diesel engine
518252	9	CAN Bus	Timeout Error of CAN-Receive-Frame RxAmb (Ambient temperature) from VCM	Diesel engine
518253	19	CAN Bus	CAN-Receive-Frame of VDC1, wrong data length	Diesel engine
518253	9	CAN Bus	Timeout Error of CAN-Receive-Frame Vehicle Dynamic Stability Control 1	Diesel engine
518254	19	CAN Bus	CAN-Receive-Frame of VM2EDC, wrong data length	Diesel engine
518254	9	CAN Bus	Timeout Error of CAN-Receive-Frame RxSERV	Diesel engine
518259	19	CAN Bus	Incorrect data length of CAN-Receive-Frame RxSERV	Diesel engine
518294	31	CAN Bus	Active DFC TimeOut of CAN-Receive-Frame TSC1ACCE from Adaptive Cruise Control	Diesel engine
518294	9	CAN Bus	Passive DFC TimeOut of CAN-Receive-Frame TSC1ACCE from Adaptive Cruise Control	Diesel engine
518295	31	CAN Bus	Active DFC TimeOut of CAN-Receive-Frame TSC1ACCR from Adaptive Cruise Control	Diesel engine
518295	9	CAN Bus	Passive DFC TimeOut of CAN-Receive-Frame TSC1ACCR from Adaptive Cruise Control	Diesel engine
518296	31	CAN Bus	Active DFC TimeOut of CAN-Receive-Frame TSC1ADE from Expansion Module	Diesel engine
518296	9	CAN Bus	Passive DFC TimeOut of CAN-Receive-Frame TSC1ADE from Expansion Module	Diesel engine
518297	31	CAN Bus	Active DFC TimeOut of CAN-Receive-Frame TSC1ADR from Expansion Module	Diesel engine
518297	9	CAN Bus	Passive DFC TimeOut of CAN-Receive-Frame TSC1ADR from Expansion Module	Diesel engine
518298	31	CAN Bus	Active DFC TimeOut of Torque Speed Control TSC1AE Message	Diesel engine
518298	9	CAN Bus	Passive DFC TimeOut of Torque Speed Control TSC1AE Message	Diesel engine
518299	31	CAN Bus	Active DFC TimeOut of Torque Speed Control TSC1AR Message	Diesel engine
518299	9	CAN Bus	Passive DFC TimeOut of Torque Speed Control TSC1AR Message	Diesel engine
518300	31	CAN Bus	Passive DFC TimeOut of Torque Speed Control TSC1DE Message (Fast rate)	Diesel engine
518300	9	CAN Bus	Passive DFC TimeOut of Torque Speed Control TSC1DE Message (Low rate)	Diesel engine
518301	31	CAN Bus	Active DFC TimeOut of Torque Speed Control TSC1DR Message (Fast rate)	Diesel engine
518301	9	CAN Bus	Passive DFC TimeOut of Torque Speed Control TSC1DR Message (Low rate)	Diesel engine
518302	31	CAN Bus	Active DFC TimeOut of Torque Speed Control TSC1PE Message	Diesel engine
518302	9	CAN Bus	Passive DFC TimeOut of Torque Speed Control TSC1PE Message	Diesel engine
518303	31	CAN Bus	Active DFC TimeOut of Torque Speed Control TSC1PR Message form PTO	Diesel engine
518303	9	CAN Bus	Passive DFC TimeOut of Torque Speed Control TSC1PR Message from PTO	Diesel engine
518304	31	CAN Bus	Active Time out for Torque Speed Control TSC1TE message	Diesel engine
518304	9	CAN Bus	Passive Time out for Torque Speed Control TSC1TE message	Diesel engine
518305	31	CAN Bus	Active Time out for Torque Speed Control TSC1TR message	Diesel engine
518305	9	CAN Bus	Passive Time out for Torque Speed Control TSC1TR message	Diesel engine
518307	31	CAN Bus	Active Time out for Torque Speed Control TSC1VR message	Diesel engine
518307	9	CAN Bus	Passive Time out for Torque Speed Control TSC1VR message	Diesel engine
518308	14	CAN Bus	CAN Receive Frame TSC1ACCE disturbed or incorrect	Diesel engine
518308	19	CAN Bus	CAN-Receive-Frame of TSC1ACCE, wrong data length	Diesel engine
518308	2	CAN Bus	TimeOut of CAN-Receive-Frame TSC1ACCE from Adaptive Cruise Control	Diesel engine
518309	19	CAN Bus	CAN-Receive-Frame of TSC1ACCR, wrong data length	Diesel engine
518309	2	CAN Bus	TimeOut of CAN-Receive-Frame TSC1ACCR from Adaptive Cruise Control	Diesel engine

dtc trouble codes diesel engine

518	31	Torque Limitation active	Torque limitation caused by SCRCAT protection	Diesel engine
518310	14	CAN Bus	CAN Receive Frame TSC1ADE disturbed or incorrect	Diesel engine
518310	19	CAN Bus	CAN-Receive-Frame of TSC1ADE, wrong data length	Diesel engine
518310	2	CAN Bus	TimeOut of CAN-Receive-Frame TSC1ADE from Expansion Module	Diesel engine
518311	19	CAN Bus	CAN-Receive-Frame of TSC1ADR, wrong data length	Diesel engine
518311	2	CAN Bus	TimeOut of CAN-Receive-Frame TSC1ADR from Expansion Module	Diesel engine
518312	14	CAN Bus	Checksum error on TSC1AE frame message	Diesel engine
518312	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1AE message from ABS/ESP/ASR	Diesel engine
518313	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1AR message from ABS/ESP/ASR	Diesel engine
518314	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1DE message from Retarder	Diesel engine
518315	14	CAN Bus	Checksum error on TSC1DR frame message	Diesel engine
518315	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1DR message from Retarder	Diesel engine
518316	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1PE message from PTO controller	Diesel engine
518317	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1PR message	Diesel engine
518317	2	CAN Bus	TimeOut of CAN-Receive-Frame TSC1PR from Expansion Module	Diesel engine
518318	14	CAN Bus	Checksum error on TSC1PE frame message	Diesel engine
518319	14	CAN Bus	Checksum error on TSC1TE frame message	Diesel engine
518319	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1TE message from transmission controller	Diesel engine
518320	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1TR message from transmission controller	Diesel engine
518321	19	CAN Bus	Incorrect length of CAN-Receive-Frame Torque Speed Control TSC1VR message from Body Computer	Diesel engine
518322	19	CAN Bus	Torque or speed control demand disturbed or discontinued	Diesel engine
518322	31	CAN Bus	CAN-Receive-Frame of TSC1ACCR limp home condition	Diesel engine
518323	14	CAN Bus	CAN-Receive-Frame of TSC1ACCE rolling counter error (frame missed)	Diesel engine
518323	19	CAN Bus	CAN-Receive-Frame of TSC1ACCE, Checksum error	Diesel engine
518323	2	CAN Bus	CAN-Receive-Frame of TSC1ACCE out of range condition	Diesel engine
518323	31	CAN Bus	CAN-Receive-Frame of TSC1ACCE error condition	Diesel engine
518323	9	CAN Bus	Torque or speed control demand from ABS/ESR/ESP exceeding the maximum time	Diesel engine
518324	14	CAN Bus	CAN-Receive-Frame of TSC1ACCR rolling counter error (frame missed)	Diesel engine
518324	19	CAN Bus	CAN-Receive-Frame of TSC1ACCR, Checksum error	Diesel engine
518324	2	CAN Bus	CAN-Receive-Frame of TSC1ACCR out of range condition	Diesel engine
518324	31	CAN Bus	CAN-Receive-Frame of TSC1ACCR error condition	Diesel engine
518324	9	CAN Bus	Torque or speed control demand from Driveline Retarder exceeding the maximum time	Diesel engine
518325	14	CAN Bus	CAN-Receive-Frame of TSC1ADE rolling counter error (frame missed)	Diesel engine
518325	19	CAN Bus	CAN-Receive-Frame of TSC1ADE, Checksum error	Diesel engine
518325	2	CAN Bus	CAN-Receive-Frame of TSC1ADE out of range condition	Diesel engine
518325	31	CAN Bus	CAN-Receive-Frame of TSC1ADE error condition	Diesel engine
518325	9	CAN Bus	Torque or speed control demand from PTO exceeding the maximum time	Diesel engine
518326	14	CAN Bus	CAN-Receive-Frame of TSC1ADR rolling counter error (frame missed)	Diesel engine
518326	19	CAN Bus	CAN-Receive-Frame of TSC1ADR, Checksum error	Diesel engine
518326	2	CAN Bus	CAN-Receive-Frame of TSC1ADR out of range condition	Diesel engine
518326	31	CAN Bus	CAN-Receive-Frame of TSC1ADR error condition	Diesel engine
518326	31	CAN Bus	CAN-Receive-Frame of TSC1ADR limp home condition	Diesel engine
518326	9	CAN Bus	Torque or speed control demand from Transmission Controller AMT exceeding the maximum time	Diesel engine
518327	9	CAN Bus	Torque or speed control demand from Vehicle Controller exceeding the maximum time	Diesel engine
518328	9	CAN Bus	Continuous negative torque control demand from ABS/ESR/ESP exceeding the maximum time	Diesel engine
518329	9	CAN Bus	Continuous negative torque control demand from Driveline Retarder exceeding the maximum time	Diesel engine
518330	31	CAN Bus	Continuous negative torque control demand from Transmission AMT exceeding the maximum time	Diesel engine
518331	31	CAN Bus	Continuous negative torque control demand from Vehicle Controller exceeding the maximum time	Diesel engine
518332	9	CAN Bus	Torque or speed control demand from PTO Retarder exceeding the maximum time	Diesel engine
518333	9	CAN Bus	Torque or speed control demand from Transmission Controller Retarder exceeding the maximum time	Diesel engine
518334	9	CAN Bus	Torque or speed control demand from VCM Retarder exceeding the maximum time	Diesel engine
518335	9	CAN Bus	Torque or speed control demand from ABS/ESR/ESP Retarder exceeding the maximum time	Diesel engine
518336	9	CAN Bus	Continuous negative torque control demand from Driveline Retarder exceeding the maximum time	Diesel engine
518344	19	CAN Bus	Incorrect data length of CAN-Receive-Frame ERC1BC	Diesel engine
518344	9	CAN Bus	Timeout Error of CAN-Receive-Frame RCDR from retarder	Diesel engine

dtc trouble codes diesel engine

518345	19	CAN Bus	Incorrect data length of CAN-Receive-Frame ERC1 from Driveline Retarder	Diesel engine
518345	9	CAN Bus	Timeout Error of CAN-Receive-Frame ERC1 from Driveline Retarder	Diesel engine
518346	19	CAN Bus	Incorrect Data Length of CAN-Receive frame RCDRPac	Diesel engine
518347	19	CAN Bus	Incorrect Data Length of CAN-Receive frame RCDRBAM	Diesel engine
518348	9	CAN Bus	Timeout Error of CAN-Receive-Frame RF (Hydraulic Retarder Oil Temperature)	Diesel engine
518394	19	CAN Bus	Incorrect data length of CAN-Receive-Frame ETC1 from Transmission Controller	Diesel engine
518395	19	CAN Bus	Incorrect data length of CAN-Receive-Frame ETC2 from Transmission Controller	Diesel engine
518396	19	CAN Bus	Incorrect data length of CAN-Receive-Frame Electronic Transmission Control 7 (ETC7: transmission engine crank enable)	Diesel engine
518397	19	CAN Bus	Incorrect data length of CAN-Receive-Frame Electronic Transmission Control 8 (ETC8: torque converter ratio)	Diesel engine
518398	9	CAN Bus	Timeout of CAN-Receive-Frame Electronic Transmission Control 8 (ETC8: torque converter ratio)	Diesel engine
518400	9	CAN Bus	Timeout error of CAN-Receive-Frame TCFG2 (Transmission Torque limit)	Diesel engine
518401	9	CAN Bus	Timeout Error of CAN-Receive-Frame TF from Transmission Control (Transmission oil temperature)	Diesel engine
518402	9	CAN Bus	Timeout Error of CAN-Receive-Frame Electronic Transmission Control 6 (ETC6: recommended gear)	Diesel engine
518403	9	CAN Bus	Timeout of CAN-Receive-Frame TCFG BAM (Transmission control Forward Gear)	Diesel engine
518404	19	CAN Bus	Incorrect Data Length of CAN-Receive frame TCFG (Transmission control Forward Gear ratios)	Diesel engine
518404	9	CAN Bus	Timeout of CAN-Receive-Frame TCFG PAC (Transmission control Forward Gear)	Diesel engine
518405	19	CAN Bus	Incorrect Data Length of CAN-Receive-Frame TCFG2 (Transmission Torque limit)	Diesel engine
518406	19	CAN Bus	Incorrect length of CAN-Receive-Frame TF from Transmission Control (Transmission oil temperature)	Diesel engine
518407	19	CAN Bus	Incorrect Data Length of CAN-Receive frame TCFG (Transmission control Forward Gear ratios)	Diesel engine
518444	19	PTO actuation	Defect Fault Check for Signal error	Diesel engine
518445	19	CAN Bus	Data Length Code Error of CAN-Receive-Frame PTOBC	Diesel engine
518446	19	CAN Bus	Incorrect data length of CAN-Receive-FramePTODE from VCM	Diesel engine
518446	9	CAN Bus	Timeout Error of CAN-Receive-Frame PTOBC	Diesel engine
518447	9	CAN Bus	Timeout Error of CAN-Receive-Frame PTODE from VCM	Diesel engine
518500	9	CAN Bus	Timeout Error of CAN-Transmit-Frame ET2 message (ECU temperature)	Diesel engine
518544	19	CAN Bus	Message data length Error of CAN-Receive-Frame ACC2 from Adaptive Cruise Control	Diesel engine
518544	2	CAN Bus	Invalid range of ACC enable status in CAN-Receive-Frame ACC2 from Adaptive Cruise Control	Diesel engine
518544	31	Cruise control	ACC error detected	Diesel engine
518545	19	CAN Bus	CAN-Receive-Frame of Adaptive Cruise Control/Vehicle Speed (ACC1) , wrong data length	Diesel engine
518545	2	Cruise control	ACC state invalid	Diesel engine
518545	31	Cruise control	Cruise control command in CCVS2 message out of valid range	Diesel engine
518546	19	CAN Bus	Incorrect Data Length of CAN-Receive-Frame Cruise Control Vehicle Speed	Diesel engine
518548	9	CAN Bus	Timeout Error of CAN-Receive-Frame ACC2 for Adaptive Cruise Control	Diesel engine
518549	9	CAN Bus	Timeout Error of CAN-Receive-Frame Adaptive Cruise Control Vehicle Speed from Radar Interface	Diesel engine
518550	9	CAN Bus	Timeout Error of CAN-Receive-Frame Cruise Control Vehicle Speed	Diesel engine
518553	9	CAN Bus	Time out Error of CAN-Receive-Frame CCVS2 from cruise control	Diesel engine
518554	9	CAN Bus	Timeout Error of CAN-Transmit-Frame CCVS3	Diesel engine
518594	19	CAN Bus	Checksum Error of CAN-Receive-Frame Electronic Brake Controller (EBC1RCS)	Diesel engine
518594	2	Break Actuation	Brake switch implausible (main brake not pressed, redundant brake pressed)	Diesel engine
518594	9	CAN Bus	Timeout Error of CAN-Receive-Frame AIR1 from Service Brake Circuit 1	Diesel engine
518595	19	CAN Bus	Missed or repeated frame Error of CAN-Receive-Frame Electronic Brake Controller (EBC1RCS)	Diesel engine
518595	2	Break Actuation	Brake switch implausible (main brake not pressed, redundant brake pressed) not confirmed by main brake switch over CAN	Diesel engine
518595	9	CAN Bus	CAN-Timeout Error of Receive-Frame of Advanced Emergency Braking System 1 (AEBS1)	Diesel engine
518596	19	CAN Bus	Data Length Error of CAN-Receive-Frame Electronic Brake Controller (EBC1RCS)	Diesel engine
518596	2	Break Actuation	Brake switch implausible (main brake pressed, redundant brake not pressed status)	Diesel engine
518596	9	CAN Bus	CAN Bus Received frames:Timeout Error of CAN-Receive-Frame Electronic Brake Controller (EBC1RCS)	Diesel engine
518597	19	CAN Bus	CAN Bus Received frames:Data Length Error of CAN-Receive-Frame Electronic Brake Controller (EBC5)	Diesel engine
518597	2	Break Actuation	Brake switch implausible (main brake pressed, redundant brake not pressed) not confirmed by main brake switch over CAN	Diesel engine
518597	9	CAN Bus	Timeout Error of CAN-Receive-Frame Electronic Brake Controller (EBC5)	Diesel engine
518644	14	CAN Bus	Checksum error	Diesel engine
518644	19	CAN Bus	Message data length Error of CAN-Receive-Frame BC2EDC1 from Body Computer	Diesel engine
518644	31	CAN Bus	Rolling counter logic BC2EDC2	Diesel engine
518644	9	CAN Bus	Timeout Error of CAN-Receive-Frame IVECO proprietary Body Computer to EDC (BC2EDC1)	Diesel engine
518645	19	CAN Bus	Message data length Error of CAN-Receive-Frame BC2EDC2 from Body Computer	Diesel engine
518645	9	CAN Bus	Timeout Error of CAN-Receive-Frame IVECO proprietary Body Computer to EDC (BC2EDC2)	Diesel engine

dtc trouble codes diesel engine

518647	19	CAN Bus	Incorrect data length of CAN-Receive-Frame High Resolution Vehicle Distance (HRVD)	Diesel engine
518647	9	CAN Bus	Timeout Error of CAN-Receive-Frame High Resolution Vehicle Distance (HRVD)	Diesel engine
518648	19	CAN Bus	Incorrect data length of CAN-Receive-Frame High Resolution Wheel Speed Information (HRWS: Front Axle Left/Right wheel speed)	Diesel engine
518648	9	CAN Bus	Timeout Error of CAN-Receive-Frame High Resolution Wheel Speed Information (HRWS: Front Axle Left/Right wheel speed)	Diesel engine
518649	19	CAN Bus	Incorrect data length of CAN-Receive-Frame ISCSBC (Intermediate Speed Select State from Body Computer)	Diesel engine
518649	9	CAN Bus	Timeout Error of CAN-Receive-Frame ISCSBC (Intermediate Speed Select State from Body Computer)	Diesel engine
518650	9	CAN Bus	Timeout of CAN-Receive-Frame MVSBC from Body Computer (Veh.speed limit 1)	Diesel engine
518651	19	CAN Bus	Incorrect data length of CAN-Receive-Frame MVSBC from Body Computer (Veh.speed limit 1)	Diesel engine
518651	9	CAN Bus	Timeout error of CAN-Receive-Frame of Vehicle Distance (RxVD)	Diesel engine
518652	19	CAN Bus	CAN-Receive-Frame of Vehicle Distance (RxVD), wrong data length	Diesel engine
518653	19	CAN Bus	CAN-Receive-Frame of TimeDate, wrong data length	Diesel engine
518653	31	CAN Bus VCM	DFC of Auxiliary Engine Shutdown Switch Message	Diesel engine
518654	19	CAN Bus	Incorrect Data Length of CAN-Receive-Frame Tachograf (TCO1)	Diesel engine
518654	9	CAN Bus	Timeout Error of CAN-Receive-Frame CM1BC (from Body Computer)	Diesel engine
518655	9	CAN Bus	Timeout Error of CAN-Receive-Frame CCSSBC (Speed limit from Body Computer)	Diesel engine
518656	19	CAN Bus	Message data length Error of CAN-Receive-Frame CCSSBC (Speed limit from Body Computer)	Diesel engine
518657	19	CAN Bus	Incorrect data length Error of CAN-Receive-Frame CM1BC (from Body Computer)	Diesel engine
518658	19	CAN Bus	Data Length error for CAN Receive Message EBC1BC from BC or VCM	Diesel engine
518659	19	CAN Bus	Data Length error for CAN Receive Message EBC1	Diesel engine
518659	9	CAN Bus	Timeout Error of CAN-Receive-Frame EBC1BC from BC or VCM	Diesel engine
518660	9	CAN Bus	Timeout Error of CAN-Receive-Frame Electronic Brake Controller (EBC1: ASR,EBS,ABS, Traction control, retarder)1	Diesel engine
518694	11	Exhaust Flap actuator	Control failure reported by actuator via CAN message	Diesel engine
518694	12	Exhaust Flap actuator	Electrical problem reported by actuator via CAN message	Diesel engine
518694	14	Exhaust Flap actuator	Number of running initialisation too high	Diesel engine
518694	19	Exhaust Flap actuator	Incorrect Data Length of CAN message FLP2EDC from FLap actuator	Diesel engine
518694	20	Exhaust Flap actuator	Feedback position positive deviation to high	Diesel engine
518694	21	Exhaust Flap actuator	Feedback position negative deviation to high	Diesel engine
518694	3	Exhaust Flap actuator	Short Circuit to Battery error at the low side	Diesel engine
518694	31	Exhaust Flap actuator	Loss of communication error reported by actuator via CAN message	Diesel engine
518694	4	Exhaust Flap actuator	Short Circuit to Ground error at the low side	Diesel engine
518694	5	Exhaust Flap actuator	Open Load error at the low side	Diesel engine
518694	6	Exhaust Flap actuator	Over Temperature error at the low side	Diesel engine
518694	7	Exhaust Flap actuator	High motor effort reported by actuator	Diesel engine
518694	9	CAN Bus	Timeout Error of CAN-Receive-Frame FLP2EDC from Exhaust Flap	Diesel engine
518695	14	Exhaust Flap actuator	Actuator reports system failure over CAN message	Diesel engine
518695	19	CAN Bus	Incorrect Data Length of CAN-Receive-Frame GPM23	Diesel engine
518695	3	Exhaust Flap actuator	Short Circuit to Battery error at the high side	Diesel engine
518695	31	Exhaust Flap actuator	Initialisation failure	Diesel engine
518695	4	Exhaust Flap actuator	Short Circuit to Ground error at the high side	Diesel engine
518695	6	Exhaust Flap actuator	Over temperature error on power stage for Exhaust Flap Actuator	Diesel engine
518695	7	Exhaust Flap actuator	High Side SCB error and Low side SCG error	Diesel engine
518695	9	CAN Bus	Timeout Error of CAN-Receive-Frame GPM23	Diesel engine
518696	19	CAN Bus	Message data length Error of CAN-Receive-Frame HTR (Heater Information)	Diesel engine
518696	3	Exhaust Flap actuator	Short circuit to battery error on power stage for Exhaust Flap Actuator	Diesel engine
518696	4	Exhaust Flap actuator	Short circuit to ground error on power stage for Exhaust Flap Actuator	Diesel engine
518696	9	CAN Bus	Timeout Error of CAN-Receive-Frame HTR (Heater Information)	Diesel engine
518697	31	Exhaust Flap actuator	No load error on power stage for Exhaust Flap Actuator	Diesel engine
518698	31	Exhaust Flap actuator	Actuator reports over temperature error	Diesel engine
518704	19	CAN Bus	Incorrect data length of CAN-Receive-Frame NH3Fac from NH3 sensor	Diesel engine
518744	19	CAN Bus	Incorrect data length of CAN-Receive-Frame HCU2EDC1	Diesel engine
518744	9	CAN Bus	Timeout of CAN-Receive-Frame HCU2EDC1BAM	Diesel engine
518745	19	CAN Bus	Incorrect data length of CAN-Receive-Frame HCU2EDC2	Diesel engine
518745	9	CAN Bus	Timeout of CAN-Receive-Frame HCU2EDC1 (BAM to packet timeout)	Diesel engine
518746	9	CAN Bus	Timeout of CAN-Receive-Frame HCU2EDC1 (packet timeout)	Diesel engine
518747	9	CAN Bus	Timeout of CAN-Receive-Frame HCU2EDC1	Diesel engine

dtc trouble codes diesel engine

518748	9	CAN Bus	Timeout of CAN-Receive-Frame HCU2EDC2	Diesel engine
518795	2	NH3 Sensor	Sensor reports NH3 Factor plausibility error	Diesel engine
518796	2	NH3 Sensor	Sensing plausibility error reported via CAN by smart NH3 sensor	Diesel engine
518844	12	NOx Sensor (CAN)	NOx Sensor temperature out of range	Diesel engine
518844	19	NOx Sensor (CAN)	Incorrect data length of CAN-Receive-Frame NOxDataBAM from NOx sensor	Diesel engine
518844	2	CAN NOx Sensor	NOx Signal out of range	Diesel engine
518844	9	CAN Bus	Timeout error of CAN-Receive frame NOxData from NOx sensor	Diesel engine
518845	19	NOx Sensor (CAN)	Incorrect data length of CAN-Receive-Frame NOxDataPac from NOx sensor	Diesel engine
518845	2	CAN NOx Sensor	NOx Signal out of range	Diesel engine
518845	9	CAN Bus	Timeout error of CAN-Receive frame NOxDataUs from NOx sensor upstream	Diesel engine
518846	19	NOx Sensor (CAN)	Incorrect data length of CAN-Receive-Frame NOxDataUsBAM from NOx sensor upstream	Diesel engine
518847	19	NOx Sensor (CAN)	Incorrect data length of CAN-Receive-Frame NOxDataUsPac from NOx sensor upstream	Diesel engine
518848	19	NOx Sensor (CAN)	Incorrect data length of CAN-Receive-Frame NOxSens from NOx sensor	Diesel engine
518849	19	NOx Sensor (CAN)	Incorrect data length of CAN-Receive-Frame NOxSensUs from NOx Upstream Sensor	Diesel engine
518854	2	NOx Sensing	Sensor plausibility error	Diesel engine
518859	2	NOx Sensor (CAN)	NOx Sensor upstream detects not plausible values for NOx value	Diesel engine
518944	19	CAN Bus	Message data length Error of CAN-Receive-Frame PMSensCom (PM Sensor status/error information)	Diesel engine
518944	31	PM Sensor	"generic error 1" reported by the sensor	Diesel engine
518944	7	PM Sensor	clogged tip	Diesel engine
518944	9	CAN Bus	Timeout Error of CAN-Receive-Frame PBES (Proprietary B Message, Smart Alternator Module)	Diesel engine
518945	19	CAN Bus	Message data length Error of CAN-Receive-Frame PMSens (PM Sensor information)	Diesel engine
518945	31	PM Sensor	"generic error 2" reported by the sensor	Diesel engine
518946	31	PM Sensor	Performance error reported by the sensor	Diesel engine
518947	31	PM Sensor	Tampering error reported by the sensor	Diesel engine
518948	31	PM Sensor	Temperature error reported by the sensor	Diesel engine
518950	9	CAN Bus	Timeout Error of CAN-Receive-Frame PMSens (PM Sensor information)	Diesel engine
518951	9	CAN Bus	Timeout Error of CAN-Receive-Frame PMSensCom (PM Sensor status/error information)	Diesel engine
518994	19	CAN Bus	Message data length Error of CAN-Receive-Frame PBES (Proprietary B Message, Smart Alternator Module)	Diesel engine
518997	9	LIN-Bus	Time out of at least 1 of received Frames from Smart Alternator 3	Diesel engine
518998	9	LIN-Bus	Time out of received Frame IAM_ECM_FEEDBACK_1 from Smart Alternator 1	Diesel engine
518999	9	LIN-Bus	Time out of received Frame IAM_ECM_FEEDBACK_2 from Smart Alternator 2	Diesel engine
519000	9	LIN-Bus	Time out of received Frame IAM_ECM_FEEDBACK_3 from Smart Alternator 3	Diesel engine
519001	9	LIN-Bus	Time out of received Frame IAM_ECM_DIAG_1 from Smart Alternator 1	Diesel engine
519002	9	LIN-Bus	Time out of received Frame IAM_ECM_DIAG_2 from Smart Alternator 2	Diesel engine
519003	9	LIN-Bus	Time out of received Frame IAM_ECM_DIAG_3 from Smart Alternator 3	Diesel engine
519004	9	LIN-Bus	Time out of at least 1 of received Frames from Smart Alternator 1	Diesel engine
519005	9	LIN-Bus	Time out of at least 1 of received Frames from Smart Alternator 2	Diesel engine
519044	0	SCR Reagent Quality	UREA quality sensor: Temperature value SRC high	Diesel engine
519044	1	SCR Reagent Quality	UREA quality sensor: Temperature value SRC low	Diesel engine
519044	12	SCR Reagent Quality	UREA quality sensor: sensor reports self diagnostic error for temperature signal	Diesel engine
519044	14	SCR Reagent Tank Level	Maximum number restarts allowed with empty UREA Tank is exceeded	Diesel engine
519044	17	SCR Reagent Tank Level	Urea tank level sensor deviation (too low level)	Diesel engine
519044	19	CAN Bus	Incorrect data length of CAN-Receive-Frame SCR2 from Denox module	Diesel engine
519044	2	NOx Sensing	Plausibility error of NOx sensor value	Diesel engine
519044	3	SCR Reagent Quality	UREA quality sensor: Temperature signal Short Circuit to Battery	Diesel engine
519044	4	SCR Reagent Quality	UREA quality sensor: Temperature signal Short Circuit to Ground	Diesel engine
519044	5	SCR Reagent Quality	UREA quality sensor: Temperature signal Open Load	Diesel engine
519044	9	CAN Bus	TimeOut of CAN-Receive-Frame SCR2 from Denox module	Diesel engine
519045	1	SCR Reagent Tank Level	Info: SCR reagent tank level below third warning level, DFC for triggering warning action dependent on filling level of reducing agent	Diesel engine
519045	19	CAN Bus	Incorrect data length of CAN-Receive-Frame SCR1 from Denox module	Diesel engine
519045	2	NOx Sensor (CAN)	NOx Sensor detects not plausible values (NOx or Lambda)	Diesel engine
519045	9	CAN Bus	Timeout error of CAN-Receive-Frame SCR1 from DCU15 (Catalyst Temperatures, Urea pressure, SCR failures,SCR protection request)	Diesel engine
519046	1	SCR Reagent Tank Level	Info: SCR reagent tank level below fourth warning level, DFC for triggering warning action dependent on filling level of reducing agent	Diesel engine
519046	14	SCR Reagent Feeding	SCR monitoring: general pressure check error	Diesel engine
519046	19	CAN Bus	Incorrect length of CAN-Receive-Frame Urea Tank Level (UreaLvl)	Diesel engine

dtc trouble codes diesel engine

519046	2	NOx Sensor (CAN)	NOx Sensor detects not plausible values for NOx	Diesel engine
519046	9	CAN Urea Level	Timeout Error of CAN-Receive-Frame Urea Tank Level (UreaLvl)	Diesel engine
519047	19	CAN Bus	Incorrect Data Length Error of CAN-Receive-Frame DM1DCUBAM (DCU errors)	Diesel engine
519047	31	SCR Control	Info: DCU Error of SPN group 3 reported via CAN message DM1DCU (UREA tank level <10%)	Diesel engine
519047	9	CAN Bus	Timeout Error of CAN-Transmit-Frame A1DEFI message (DEF Temperature)	Diesel engine
519048	19	CAN Bus	Incorrect Data Length Error of CAN-Receive-Frame DM1DCU (DCU errors)	Diesel engine
519048	31	SCR Control	Info: DCU Error of SPN group 4 reported via CAN message DM1DCU (DCU electrical failures)	Diesel engine
519049	19	CAN Bus	Incorrect Data Length Error of CAN-Receive-Frame DM1DCUPACK (DCU errors)	Diesel engine
519049	31	SCR Control	Info: DCU Error of SPN group 5 reported via CAN message DM1DCU (DCU plausibility failures)	Diesel engine
519050	31	SCR Control	Info: DCU Error of SPN group 2 reported via CAN message DM1DCU (UREA tank level < 5%)	Diesel engine
519051	31	SCR Control	Info: DCU Error of SPN group 1 reported via CAN message DM1DCU (Empty urea tank)	Diesel engine
519094	0	Turbocharger control	Turbocharger Actuator: Signal Range Check High for the current through the turbo charger actuator	Diesel engine
519094	1	Turbocharger control	Turbocharger Actuator: Signal Range Check Low for the current through the turbo charger actuator	Diesel engine
519094	19	CAN Bus	eVGT Actuator: Incorrect data length of CAN-Receive-Frame SRA2EDC from eVGT Actuator	Diesel engine
519094	31	Turbocharger control	eVGT Actuator: too much running inits	Diesel engine
519094	6	Turbocharger control	Turbocharger position governor: Excessive current adaption value	Diesel engine
519095	6	Turbocharger control	Over temperature of VTG actuator	Diesel engine
519144	0	Coolant pump	Water pump actuator: Slow response, permanent positive deviation detected	Diesel engine
519144	1	Coolant pump	Water pump actuator: Slow response, permanent negative deviation detected	Diesel engine
519144	10	Coolant pump	Water pump actuator reports control error	Diesel engine
519144	12	Coolant pump	Water pump actuator reports an electrical error	Diesel engine
519144	14	Coolant pump	Water pump actuator reports a system error	Diesel engine
519144	19	CAN Bus	CAN-Receive-Frame of WPC2EDC, wrong data length	Diesel engine
519144	3	Coolant pump	Coolant Pump PWM actuator: Short Circuit to Battery error on the output power stage	Diesel engine
519144	31	Coolant pump	Water pump actuator reports an over temperature error	Diesel engine
519144	4	Coolant pump	Coolant Pump PWM actuator: Short Circuit to Ground error on the output power stage	Diesel engine
519144	5	Coolant pump	Coolant Pump PWM actuator: Open Load error on the output power stage	Diesel engine
519144	6	Coolant pump	Coolant Pump PWM actuator: Over Temperature error on the output power stage	Diesel engine
519144	7	Coolant pump	Water pump actuator: motor effort too high	Diesel engine
519144	9	CAN Bus	Timeout Error of CAN-Receive-Frame WPC2EDC from Water Pump Controller	Diesel engine
519145	14	Coolant pump	Water pump actuator: pump stalling during operation (initialise procedure due to loose contact)	Diesel engine
519145	3	Coolant pump	Coolant Pump digital actuator: Short Circuit to Battery error on the output power stage	Diesel engine
519145	31	Coolant pump	Water pump actuator reports a general error	Diesel engine
519145	4	Coolant pump	Coolant Pump digital actuator: Short Circuit to Ground error on the output power stage	Diesel engine
519145	5	Coolant pump	Coolant Pump digital actuator: Open Load error on the output power stage	Diesel engine
519145	6	Coolant pump	Coolant Pump digital actuator:	Diesel engine
519146	5	Coolant pump	Coolant Pump actuator: Open Load error on the output power stage	Diesel engine
519194	31	EGR Valve	EGR smart actuator: Actuator detected a general error	Diesel engine
519195	10	EGR Valve	EGR smart actuator: Actuator detected a control error	Diesel engine
519195	12	EGR Valve	EGR smart actuator: Actuator detected an electrical problem	Diesel engine
519195	14	EGR Valve	EGR smart actuator: Number of initialisation too high, loose contact on actuator supply	Diesel engine
519195	2	EGR Control	EGR control: Measured NOx upstream catalyst deviating from modelled value	Diesel engine
519195	20	EGR Valve	EGR smart actuator: Feedback position positive deviation to high (too high EGR)	Diesel engine
519195	21	EGR Valve	EGR smart actuator: Feedback position negative deviation to high (too low EGR)	Diesel engine
519195	3	EGR Inducement Lamp	EGR Inducement Lamp: Short Circuit to Battery Error	Diesel engine
519195	31	EGR Valve	EGR smart actuator: EGR System failure detected	Diesel engine
519195	4	EGR Inducement Lamp	EGR Inducement Lamp: Short Circuit to Ground Error	Diesel engine
519195	5	EGR Inducement Lamp	EGR Inducement Lamp: Open Load Error	Diesel engine
519195	6	EGR Inducement Lamp	EGR Inducement Lamp: Over Temperature Error	Diesel engine
519195	7	EGR Valve	EGR smart actuator: EGR, motor effort too high	Diesel engine
519195	9	CAN Bus	CAN Bus EGR Rate: Timeout Error of CAN-Receive Frame EGR2EDC from EGR actuator	Diesel engine
519196	19	EGR Valve	CAN Bus: Data Length error for CAN Receive Message EGR2EDC from EGR smart actuator	Diesel engine
519196	31	EGR Valve	EGR smart actuator: Actuator over temperature detected	Diesel engine
519244	19	CAN Bus	Message data length Error of CAN-Receive-Frame VEP5 (Vehicle Electrical Power 5)	Diesel engine
519244	9	CAN Bus	Timeout Error of CAN-Receive-Frame VEP5 (Vehicle Electrical Power 5) from IBS Module	Diesel engine

dtc trouble codes diesel engine

519245	19	CAN Bus	Message data length Error of CAN-Receive-Frame VEP3 (Vehicle Electrical Power 3) from IBS Module	Diesel engine
519245	9	CAN Bus	Timeout Error of CAN-Receive-Frame VEP1 (Vehicle Electrical Power 1) from IBS Module	Diesel engine
519246	19	CAN Bus	Message data length Error of CAN-Receive-Frame VEP1 (Vehicle Electrical Power 1) from IBS Module	Diesel engine
519246	9	CAN Bus	Timeout Error of CAN-Receive-Frame VEP3 (Vehicle Electrical Power 3) from IBS Module	Diesel engine
519247	19	CAN Bus	Message data length Error of CAN-Receive-Frame VEP1_F3 (Vehicle Electrical Power 1 for smart Alternator) from IBS Module	Diesel engine
519247	9	CAN Bus	Timeout Error of CAN-Receive-Frame VEP1_F3 (Vehicle Electrical Power 1 for smart Alternator) from IBS Module	Diesel engine
519294	2	SCR Reagent Heating	Error supply module heater plausibility	Diesel engine
519294	20	SCR Reagent Heating	Supply Module Heater: Voltage feedback too high	Diesel engine
519294	21	SCR Reagent Heating	Supply Module Heater: Voltage feedback too low	Diesel engine
519294	3	SCR Reagent Heating	Urea Supply Module Heater Actuator power stage: Short Circuit to Battery	Diesel engine
519294	31	None	Urea Supply Module Heater Field Effect Transistor error	Diesel engine
519294	4	SCR Reagent Heating	Urea Supply Module Heater Actuator power stage: Short Circuit to ground	Diesel engine
519294	5	SCR Reagent Heating	Urea Supply Module Heater Actuator power stage: Open Load error	Diesel engine
519295	2	SCR Reagent Heating	Error urea supply module heater temperature sensor dynamic plausibility	Diesel engine
519295	20	SCR Reagent Heating	Supply Module Heater: Current feedback too high	Diesel engine
519295	21	SCR Reagent Heating	Supply Module Heater: Current feedback too low	Diesel engine
519296	2	SCR Reagent Heating	Error urea supply module heater temperature sensor cold start plausibility	Diesel engine
519344	31	Info	Bypass function FIEco1 set	Diesel engine
519345	31	Info	Bypass function FIEco2 set	Diesel engine
519346	31	Info	Bypass function FIEco3 set	Diesel engine
519347	31	Info	Bypass function FIEco4 set	Diesel engine
519348	31	Info	Bypass function FIEco5 set	Diesel engine
519394	3	PTO actuation	Hydraulic Load Deactivation: Short Circuit to Battery on Power stage	Diesel engine
519394	4	PTO actuation	Hydraulic Load Deactivation: Short Circuit to Ground on Power stage	Diesel engine
519394	5	PTO actuation	Hydraulic Load Deactivation: Open load on Power stage	Diesel engine
519394	6	PTO actuation	Hydraulic Load Deactivation: Over temperature on Power stage	Diesel engine
519444	31	Info	OBD Long Time failure: Empty Reagent Tank	Diesel engine
519445	31	Info	OBD Long Time failure: No Reagent dosing	Diesel engine
519446	31	Info	OBD Long Time failure: SCR Reagent Dosing:	Diesel engine
519447	31	Info	OBD Long Time failure: SCR Temperature	Diesel engine
519448	31	Info	OBD Long Time failure: SCR System	Diesel engine
519449	31	Info	OBD Long Time failure: EGR System:	Diesel engine
519450	31	Info	OBD Long Time failure: air System:	Diesel engine
519451	31	Info	OBD Long Time failure: Injection timing system	Diesel engine
519452	31	Info	OBD Long Time failure:	Diesel engine
519453	31	Info	OBD Long Time failure:	Diesel engine
519454	31	Info	OBD Long Time failure:	Diesel engine
519455	31	Info	OBD Long Time failure:	Diesel engine
519456	31	Info	OBD Long Time failure: Oxygen sensor	Diesel engine
519457	31	Info	OBD Long Time failure: NOx Sensor	Diesel engine
519458	31	Info	OBD Long Time failure: Reagent Quality	Diesel engine
519459	31	Info	OBD Long Time failure: fuel system	Diesel engine
519544	0	Oxicat Temp Monitoring	Diagnostic Fault Check for enhanced SRC-Max of First exhaust gas temperature	Diesel engine
519544	1	Oxicat Temp Monitoring	Diagnostic Fault Check for enhanced SRC-Min of First exhaust gas temperature	Diesel engine
519544	2	Exhaust Temp monitoring	Diagnostic Fault check for Model based plausibility check of third exhaust-gas temperature	Diesel engine
519545	0	DPF Temp Monitoring	Diagnostic Fault Check for enhanced SRC-Max of Second exhaust gas temperature	Diesel engine
519545	1	DPF Temp Monitoring	Diagnostic Fault Check for enhanced SRC-Min of Second exhaust gas temperature	Diesel engine
519545	2	Exhaust Temp monitoring	Diagnostic Fault check for Model based plausibility check of fifth exhaust-gas temperature	Diesel engine
519546	0	SCR Temp monitoring	Diagnostic Fault Check for enhanced SRC-Max of T3 (exhaust gas temperature after engine)	Diesel engine
519546	1	SCR Temp monitoring	Diagnostic Fault Check for enhanced SRC-Min of third exhaust gas temperature	Diesel engine
519546	2	DPF Temp Monitoring	Measured value deviating from modelled temperature	Diesel engine
519547	0	Exhaust Temp monitoring	Diagnostic Fault Check for enhanced SRC-Max of Fourth exhaust gas temperature	Diesel engine
519547	1	Exhaust Temp monitoring	Diagnostic Fault Check for enhanced SRC-Min of Fourth exhaust gas temperature	Diesel engine
519548	0	Exhaust Temp monitoring	Diagnostic Fault Check for enhanced SRC-Max of fifth exhaust gas temperature	Diesel engine
519548	1	Exhaust Temp monitoring	Diagnostic Fault Check for enhanced SRC-Min of fifth exhaust gas temperature	Diesel engine

dtc trouble codes diesel engine

519548	2	Exhaust Temp monitoring	Deviation from other sensors at cold start	Diesel engine
519549	0	Exhaust Temp monitoring	Diagnostic Fault Check for enhanced SRC-Max of sixth exhaust gas temperature	Diesel engine
519549	1	Exhaust Temp monitoring	Diagnostic Fault Check for enhanced SRC-Min of sixth exhaust gas temperature	Diesel engine
519549	2	Exhaust Temp monitoring	Exhaust Temperature monitoring: deviation from other sensors at cold start	Diesel engine
519550	2	DPF Temp Monitoring	Particulate Filter Upstream Temperature: deviation from other sensors at cold start	Diesel engine
519551	2	Temperature Sensor	Two or more Selected Temperature sensors deliver implausible values	Diesel engine
519594	18	Crankcase pressure	Fuel in Oil detection: Rail Pressure error and oil pressure too low detected	Diesel engine
519599	31	Crankcase pressure	Fuel in Oil detection: Warning: all Symptoms of oil dilution are present (rail error, low oil pressure, high crankcase pressure)	Diesel engine
519644	14	SCR Inducement	Healing by override is locked	Diesel engine
519644	31	SCR Inducement	Validation mode activated (full power restart in case of inducement activation)	Diesel engine
519646	16	SCR Inducement	Customer Moderate Inducement: Level 1 (Torque reduction), triggered by fault impacting on NOx efficiency	Diesel engine
519646	31	SCR Inducement	Severe inducement locked status reached.	Diesel engine
519647	0	SCR Inducement	Customer Moderate Inducement: Level 3 (Creep mode), triggered by fault impacting on NOx efficiency	Diesel engine
519647	16	SCR Inducement	Customer Hard Inducement: Level 1 (Torque reduction), triggered by fault	Diesel engine
519648	0	SCR Inducement	Customer Hard Inducement: Level 3 (Creep mode), triggered by fault	Diesel engine
519648	15	SCR Inducement	Warning, triggered by Customer Moderate fault (errors impacting NOx efficiency)	Diesel engine
519649	15	SCR Inducement	Warning, triggered by Customer Hard fault	Diesel engine
519694	0	DPF model plausibility	SRC High in DPF Flow Resistance	Diesel engine
519694	1	DPF model plausibility	SRC Low in DPF Flow Resistance	Diesel engine
519694	12	DPF pressure monitoring	Fault check for the pressure sensor plausibility at cold conditions	Diesel engine
519694	14	DPF pressure monitoring	Fault check for Hose Line connection of differential pressure sensor	Diesel engine
519694	18	DPF pressure monitoring	Differential pressure over DPF lower than expected (DPF cracked or removed)	Diesel engine
519694	19	DPF pressure sensing	DPF filter differential pressure sensor: SENT data error	Diesel engine
519694	2	DPF pressure sensing	DPF filter differential pressure sensor: measured signal invalid (Fast channel 1 error)	Diesel engine
519694	3	DPF model plausibility	DPF model plausibility: Diagnostic fault check for SRC high in Flow Resistance	Diesel engine
519694	31	DPF pressure monitoring	Fault check for the plausibility check of EnvP sensor	Diesel engine
519694	7	DPF pressure sensing	DPF filter differential pressure sensor: Hose Line Monitoring	Diesel engine
519695	0	DPF model plausibility	SRC High in DPF Flow Resistance (above second maximal limit)	Diesel engine
519695	1	DPF pressure monitoring	DPF filter differential pressure sensor: Signal value below minimum limit -- Enhanced check	Diesel engine
519695	14	DPF pressure sensing	DPF filter differential pressure sensor: counter for frame receive error above maximum limit	Diesel engine
519695	19	DPF pressure sensing	DPF filter differential pressure sensor: SENT communication error	Diesel engine
519695	2	DPF pressure sensing	DPF filter differential pressure sensor: measured data invalid (secure check failed)	Diesel engine
519695	31	DPF pressure monitoring	DPF differential pressure sensor: Sooted hose line detected	Diesel engine
519695	7	DPF pressure sensing	DPF differential pressure sensor: Hose Line Monitoring at cold state	Diesel engine
519696	0	DPF pressure monitoring	DPF filter differential pressure sensor: Signal value above maximum limit -- Enhanced check	Diesel engine
519696	31	DPF pressure sensing	DPF filter differential pressure sensor: sensor reports internal failure	Diesel engine
519697	0	DPF model plausibility	DPF model plausibility: Measured differential pressure over DPF exceeds limit	Diesel engine
519697	2	DPF pressure monitoring	DPF filter differential pressure sensor: dynamic plausibility	Diesel engine
519697	31	DPF pressure sensing	DPF filter differential pressure sensor: Digital Signal Processor DSP fault	Diesel engine
519698	2	DPF pressure monitoring	DPF filter differential pressure sensor: dynamic plausibility at cold state	Diesel engine
519744	0	Fuel pressure control Metering unit	Fuel Rail pressure above maximum limit with MeUn Control (second stage)	Diesel engine
519744	15	Fuel pressure control Metering unit	Too high fuel pressure with MeUn on 0-delivery state	Diesel engine
519744	16	Fuel pressure control Metering unit	Too high fuel pressure with MeUn on 0-delivery state (second stage)	Diesel engine
519744	17	Fuel pressure control Metering unit	Too low fuel rail pressure concerning the fuel feeding with MeUn Control	Diesel engine
519744	18	Fuel pressure control Metering unit	Too low fuel rail pressure with MeUn Control	Diesel engine
519745	0	Fuel pressure control Metering unit	Exceeding of a maximum peak pressure	Diesel engine
519745	15	Fuel pressure control Metering unit	Fuel Rail pressure above maximum limit with MeUn Control with empty tank	Diesel engine
519745	16	Fuel pressure control Metering unit	Fuel Rail pressure above maximum limit with MeUn Control (second stage) with empty tank	Diesel engine
519745	17	Fuel pressure control Metering unit	Fuel rail pressure below limit with MeUn Control	Diesel engine
519745	18	Fuel pressure control Metering unit	Too low fuel rail pressure in fast transient condition with MeUn Control	Diesel engine
519746	15	Fuel pressure control Metering unit	Too high fuel pressure with MeUn on 0-delivery state with empty tank	Diesel engine
519746	16	Fuel pressure control Metering unit	Too high fuel pressure with MeUn on 0-delivery state (second stage) with empty tank	Diesel engine
519746	17	Fuel pressure control Metering unit	Too low fuel rail pressure with MeUn Control with empty Tank	Diesel engine
519746	18	Fuel pressure control Metering unit	Too low fuel rail pressure concerning the fuel feeding with MeUn Control with empty Tank	Diesel engine
519746	31	Fuel pressure (Rail) control	Leakage in high pressure system with empty tank	Diesel engine

dtc trouble codes diesel engine

519747	31	Fuel pressure control Metering unit	Leakage in overrun with empty tank	Diesel engine
519748	31	Fuel pressure control Metering unit	Leakage in high pressure system detected at idle an empty fuel tank	Diesel engine
519749	0	Fuel pressure control Metering unit	Exceeding of a maximum peak pressure at empty fuel tank	Diesel engine
519750	17	Fuel pressure control Pressure control valve	Too low fuel rail pressure with PCV control	Diesel engine
519751	17	Fuel pressure control Pressure control valve	Too low fuel rail pressure concerning set value PCV (PCV Control)	Diesel engine
519752	15	Fuel pressure control Pressure control valve	Too high fuel rail pressure concerning set value PCV (PCV Control)	Diesel engine
519753	15	Fuel pressure control Pressure control valve	Too high fuel rail pressure concerning set value PCV- second stage (PCV Control)	Diesel engine
519754	17	Fuel pressure control Pressure control valve	Too low fuel rail pressure with PCV control with empty fuel tank	Diesel engine
519755	17	Fuel pressure control Pressure control valve	Too low fuel rail pressure concerning set value PCV (PCV Control) with empty fuel tank	Diesel engine
519756	15	Fuel pressure control Pressure control valve	Too high fuel rail pressure concerning set value PCV (PCV Control) with empty fuel tank	Diesel engine
519757	15	Fuel pressure control Pressure control valve	Too high fuel rail pressure concerning set value PCV- second stage (PCV Control) with empty fuel tank	Diesel engine
519794	14	SCR Inducement	Engine shutoff upon long idling	Diesel engine
519796	31	SCR Inducement	Error for Restart Restriction	Diesel engine
519849	31	Info: Torque Limitation active	Info: One or more torque limitations active	Diesel engine
519850	31	Info: Engine shut OFF	Info: Engine shut off request through CAN	Diesel engine
519851	31	Info: Engine shut OFF	Info: Engine shut off request through CAN	Diesel engine
519852	31	Info: Engine shut OFF	Info: Engine shut off request through CAN	Diesel engine
519853	31	Info: Engine shut OFF	Info: Engine shut off request through CAN	Diesel engine
519854	31	Info: Engine shut OFF	Info: Engine shut down override request is set	Diesel engine
519855	31	Info: Torque Limitation active	INFO: SCR Protection request 1 activated	Diesel engine
519856	31	Info: Torque Limitation active	INFO: SCR Protection request 2 activated	Diesel engine
519857	31	Info: Torque Limitation active	INFO: SCR Protection request 1 activated due to defreezing	Diesel engine
519858	31	Info: Engine shut OFF	Info: Emergency restart	Diesel engine
519859	0	Info: Torque Limitation active	Info: Torque Limitation active: OBD performance limiter is active.	Diesel engine
519860	31	Info: Torque Limitation active	Info Failure: Creep mode activated	Diesel engine
519861	31	OBD Lamp (MIL)	Info: External MIL request present (from DCU or HC Doser)	Diesel engine
519862	31	OBD Lamp (MIL)	Info: External MIL readiness not reached (from DCU or HC Doser)	Diesel engine
519894	3	DPF Control Lamp	DPF 3rd Control Lamp: Short circuit to battery error	Diesel engine
519894	4	DPF Control Lamp	DPF 3rd Control Lamp: Short circuit to ground error	Diesel engine
519894	5	DPF Control Lamp	DPF 3rd Control Lamp: No load error	Diesel engine
519894	6	DPF Control Lamp	DPF 3rd Control Lamp: Over temperature error	Diesel engine
519895	3	DPF Control Lamp	DPF 2nd Control Lamp: Short circuit to battery error	Diesel engine
519895	4	DPF Control Lamp	DPF 2nd Control Lamp: Short circuit to ground error	Diesel engine
519895	5	DPF Control Lamp	DPF 2nd Control Lamp: No load error	Diesel engine
519895	6	DPF Control Lamp	DPF 2nd Control Lamp: Over temperature error	Diesel engine
519944	3	Air conditioner compressor	Short circuit to battery error on power stage for the compressor	Diesel engine
519944	4	Air conditioner compressor	Short circuit to ground error on power stage for the compressor	Diesel engine
519944	5	Air conditioner compressor	No load error on power stage for the reduce torque instruction	Diesel engine
519944	6	Air conditioner compressor	Over Temperature on the power stage for reduce torque instruction output.	Diesel engine
519945	3	Air conditioner compressor	Short circuit to battery error on power stage for the reduce torque instruction	Diesel engine
519945	4	Air conditioner compressor	Short circuit to ground error on power stage for the reduce torque instruction	Diesel engine
519945	5	Air conditioner compressor	No load error on power stage for the compressor	Diesel engine
519945	6	Air conditioner compressor	Over Temperature of the power stage for AC compressor.	Diesel engine
519994	0	Fuel pressure control Pressure control valve	Maximum rail pressure exceeded with PCV control (second stage) with empty fuel tank	Diesel engine
519994	1	Pressure control valve	Signal range check low error of pressure control valve AD-channel	Diesel engine

dtc trouble codes diesel engine

519994	12	Fuel pressure control Pressure control valve	Maximum rail pressure exceeded with PCV control with empty fuel tank	Diesel engine
519994	14	Fuel pressure control Pressure control valve	Minimum rail pressure not reached with PCV Control wit empty fuel tank	Diesel engine
519994	15	Fuel pressure control Pressure control valve	Maximum rail pressure exceeded with PCV control	Diesel engine
519994	16	Pressure control valve	Adaptation correction value above upper limit	Diesel engine
519994	17	Fuel pressure control Pressure control valve	Minimum rail pressure not reached with PCV Control	Diesel engine
519994	18	Pressure control valve	Adaptation correction value below lower limit	Diesel engine
519994	3	Pressure control valve	Short Circuit to Battery at High Side Power stage	Diesel engine
519994	31	Pressure control valve	Number of startup attempts exceeded the limit	Diesel engine
519994	4	Pressure control valve	Short Circuit to Ground at Low Side Power stage	Diesel engine
519994	5	Pressure control valve	Open load of pressure control valve output	Diesel engine
519994	6	Pressure control valve	Over temperature of device driver of pressure control valve	Diesel engine
519995	0	Fuel pressure control Pressure control valve	Maximum rail pressure exceeded with PCV control (second stage)	Diesel engine
519995	3	Pressure control valve	Short Circuit to Battery at Low Side Power stage	Diesel engine
519995	4	Pressure control valve	Short Circuit to Ground at High Side Power stage	Diesel engine
519996	0	Pressure control valve	Signal range check high error of pressure control valve AD-channel	Diesel engine
520044	19	CAN Bus	Incorrect data length Error of CAN-Receive-Frame DC1 (Door Control1 from VCM)	Diesel engine
520044	9	CAN Bus	Timeout Error of CAN-Receive-Frame DC1 (Door Control1 from VCM)	Diesel engine
520094	14	Blow by heater	Unwanted heating activation	Diesel engine
520094	3	Blow by heater	Short Circuit to Battery error for the power stage	Diesel engine
520094	31	Blow by heater	Missed heating activation	Diesel engine
520094	4	Blow by heater	Short Circuit to Ground error for the power stage	Diesel engine
520094	5	Blow by heater	Open Load error for power stage	Diesel engine
520094	6	Blow by heater	Over temperature error for the power stage	Diesel engine
520144	16	Air Temp in AFS	Physical Range high error for air temperature sensor	Diesel engine
520144	18	Air Temp in AFS	Physical Range low error for air temperature sensor	Diesel engine
520145	0	Air Temp in AFS	Signal range lhigh on the duty cycle signal	Diesel engine
520145	1	Air Temp in AFS	Signal range low on the duty cycle signal	Diesel engine
520146	0	Air Temp in AFS	Signal range high on the period of PWM signal	Diesel engine
520146	1	Air Temp in AFS	Signal range low on the period of PWM signal	Diesel engine
520146	2	Air Temp in AFS	Plausibility check error	Diesel engine
523	2	Gearbox	Indication of first gear selection implausible	Diesel engine
523	31	CAN Bus	Gear information from AMT contain implausible value for (gear/gear ratio)	Diesel engine
523	9	CAN Bus	Timeout Error of CAN-Receive-Frame Electronic Transmission Control 2 (ETC2: selected gear, gear ratio)	Diesel engine
5245	0	SCR Inducement	Level 3 (creep mode), triggered by low reductant level	Diesel engine
5245	15	SCR Inducement	Warning, triggered by Reagent low level	Diesel engine
5245	16	SCR Inducement	Level 1 (Torque reduction), triggered by low reductant level	Diesel engine
5246	0	SCR Inducement	Level 3 (creep mode), triggered by Tampering fault	Diesel engine
5246	15	SCR Inducement	Warning, triggered by Tampering fault	Diesel engine
5246	16	SCR Inducement	Level 1 (Torque reduction), triggered by Tampering fault	Diesel engine
5267	0	DPF model plausibility	DPF: filter efficiency too low	Diesel engine
5272	2	Engine shut OFF	Info: Engine is stalled	Diesel engine
5285	14	Boost temperature	Charged air pressure cooler efficiency low	Diesel engine
5285	31	None	Charge Air Cooler: efficiency too low	Diesel engine
5310	1	None	HC accumulated in the exhaust reached second warning level	Diesel engine
5310	18	None	HC accumulated in the exhaust reached maximum tolerated level (too long running at idle)	Diesel engine
5313	2	ECU Internal	ECU Internal: Diagnostic fault check to report the plausibility error in rail pressure monitoring	Diesel engine
5313	31	Injector	Injector Blank Shot Actuation aborted , rail pressure not released after engine stop	Diesel engine
5318	2	Exhaust Temp monitoring	Exhaust gas temperature sensor: two or more temp sensors not plausible after long stand still time	Diesel engine
5319	2	DPF model plausibility	Incomplete regeneration of the DPF	Diesel engine
5319	7	DPF model plausibility	Particulate filter regeneration process exceeded maximum time	Diesel engine

dtc trouble codes diesel engine

5357	0	Injector Adjustment	Injection quantity at low idle above maximum value	Diesel engine
5357	1	Injector Adjustment	Injection quantity at low idle below minimum value	Diesel engine
5357	14	Injector	Injector: Number of injections is limited by charge balance of booster capacity	Diesel engine
5357	2	ECU internal Check	Not plausible fault: non strictly monotonous q curves quantity in conversion maps fuel quantity /torque	Diesel engine
5357	31	Injector	Injector: Number of injections is limited by quantity balance of high pressure pump	Diesel engine
5358	15	Injector	Zero fuel correction at low idle for injector of cylinder1 exceeds maximum value	Diesel engine
5358	17	Injector	Zero fuel correction at low idle for injector of cylinder1 below minimum value	Diesel engine
5358	31	Injector	Fuel Balancing Control: fuel correction for Injector of cylinder 1 outside tolerance range	Diesel engine
5359	15	Injector	Zero fuel correction at low idle for injector of cylinder4 exceeds maximum value	Diesel engine
5359	17	Injector	Zero fuel correction at low idle for injector of cylinder4 below minimum value	Diesel engine
5359	31	Injector	Fuel Balancing Control: fuel correction for Injector of cylinder 4 outside tolerance range	Diesel engine
5360	15	Injector	Zero fuel correction at low idle for injector of cylinder1 exceeds maximum value	Diesel engine
5360	17	Injector	Zero fuel correction at low idle for injector of cylinder1 below minimum value	Diesel engine
5360	31	Injector	Fuel Balancing Control: fuel correction for Injector of cylinder 1 outside tolerance range	Diesel engine
5361	15	Injector	Zero fuel correction at low idle for injector of cylinder3 exceeds maximum value	Diesel engine
5361	17	Injector	Zero fuel correction at low idle for injector of cylinder3 below minimum value	Diesel engine
5361	31	Injector	Fuel Balancing Control: fuel correction for Injector of cylinder 3 outside tolerance range	Diesel engine
5362	15	Injector	Zero fuel correction at low idle for injector of cylinder1 exceeds maximum value	Diesel engine
5362	17	Injector	Zero fuel correction at low idle for injector of cylinder1 below minimum value	Diesel engine
5362	31	Injector	Fuel Balancing Control: fuel correction for Injector of cylinder 1 outside tolerance range	Diesel engine
5363	15	Injector	Zero fuel correction at low idle for injector of cylinder2 exceeds maximum value	Diesel engine
5363	17	Injector	Zero fuel correction at low idle for injector of cylinder2 below minimum value	Diesel engine
5363	31	Injector	Fuel Balancing Control: fuel correction for Injector of cylinder 2 outside tolerance range	Diesel engine
5392	14	SCR Reagent Feeding	Pressurisation after start not possible	Diesel engine
5392	31	SCR Reagent Feeding	Pressurisation after start not possible	Diesel engine
5393	0	EGR Valve	Fault check SRC Max error of ECBVlv position sensor	Diesel engine
5393	1	EGR Valve	Fault check SRC Min error of ECBVlv position sensor	Diesel engine
5393	20	EGR Valve	Physical Signal for EGR Cooling Valve Bypass Actuator above maximum limit	Diesel engine
5393	21	EGR Valve	Physical Signal for EGR Cooling Valve Bypass Actuator below minimum limit	Diesel engine
5393	3	EGR Valve	Short circuit to battery error on power stage for EGR Cooling Valve Bypass Actuator	Diesel engine
5393	4	EGR Valve	Short circuit to ground error on power stage for EGR Cooling Valve Bypass Actuator	Diesel engine
5393	5	EGR Valve	No load error on power stage for EGR Cooling Valve Bypass Actuator	Diesel engine
5393	6	EGR Valve	Over temperature error on power stage for EGR cooler bypass valve	Diesel engine
5394	0	SCR Dosing valve	Current at the end of injection phase exceeds max threshold	Diesel engine
5394	14	SCR Reagent Feeding	Dosing valve reached end of life expectation	Diesel engine
5394	3	SCR Dosing valve	Short circuit to battery error on lowside switch.	Diesel engine
5394	31	SCR Dosing valve	Short circuit to battery on highside or open load error.	Diesel engine
5394	4	SCR Dosing valve	Short circuit error on highside switch.	Diesel engine
5394	5	SCR Dosing valve	Short circuit to ground or open load on the lowside switch.	Diesel engine
5394	6	SCR Dosing valve	Diagnostic error check for overtemperature.	Diesel engine
5394	7	SCR Dosing valve	Dosing Valve is Blocked closed	Diesel engine
5397	31	DPF model plausibility	Monitoring for too frequent regeneration of the particulate filter	Diesel engine
5416	31	Warning lamp Dashboard	Instrument Cluster reports Engine Wait to Start Lamp defect via DLCD1 (Direct Lamp Control)	Diesel engine
5419	0	EGR Throttle	SRC High for TVA position	Diesel engine
5419	1	EGR Throttle	SRC low for TVA position	Diesel engine
5419	11	Intake Throttle Valve	TVA Actuator: Control failure reported by actuator via CAN message	Diesel engine
5419	12	Intake Throttle Valve	TVA Actuator: Electrical problem reported by actuator via CAN message	Diesel engine
5419	14	Intake Throttle Valve	TVA Actuator: Number of running initialisation too high	Diesel engine
5419	16	EGR Throttle	Over temperature error on power stage	Diesel engine
5419	20	EGR Throttle	EGR Throttle Valve Position sensor: Physical Signal above maximum limit	Diesel engine
5419	21	EGR Throttle	EGR Throttle Valve Position sensor: Physical Signal below minimum limit	Diesel engine
5419	3	EGR Throttle	EGR Throttle: Short circuit to battery error on power stage for Throttle Valve Actuator	Diesel engine
5419	31	Intake Throttle Valve	TVA Actuator: Actuator reports system failure over CAN message	Diesel engine
5419	4	EGR Throttle	Short circuit to ground error on power stage for Throttle Valve Actuator	Diesel engine
5419	5	EGR Throttle	No load error on power stage for Throttle Valve Actuator	Diesel engine

dtc trouble codes diesel engine

5419	6	Intake Throttle Valve	TVA Actuator: Actuator reports over temperature error	Diesel engine
5419	7	Intake Throttle Valve	TVA Actuator: High motor effort reported by actuator	Diesel engine
5419	9	Intake Throttle Valve	CAN Bus: Timeout Error of CAN-Receive-Frame TVA2EDC from Throttle Valve Actuator	Diesel engine
5435	3	SCR Reagent Pump	Short circuit to battery error on power stage for urea pump motor	Diesel engine
5435	31	SCR Reagent Pump	UREA pump motor non availability after temperature measurement	Diesel engine
5435	4	SCR Reagent Pump	Short circuit to ground error on power stage for urea pump motor	Diesel engine
5435	5	SCR Reagent Pump	No load error on power stage for urea pump motor	Diesel engine
5435	6	SCR Reagent Pump	Over temperature error on power stage for urea pump motor	Diesel engine
5441	14	Injector	Number of injections is limited by runtime	Diesel engine
5441	2	ECU internal Check	Error in the plausibility of the injection energizing time	Diesel engine
5441	31	ECU Internal	Error in the plausibility of the start of energising angles	Diesel engine
5463	12	SCR Inducement	Value of the remaining SCR distance within warning stage 2	Diesel engine
5463	14	SCR Inducement	Value of the remaining SCR distance within warning stage 1	Diesel engine
5463	31	SCR Inducement	Value of the remaining SCR distance within the info range	Diesel engine
5466	0	DPF pressure monitoring	Particulate filter overloaded (lower level 3)	Diesel engine
5466	16	DPF pressure monitoring	Particulate filter overloaded (lower level 2)	Diesel engine
5481	12	NOx Sensor (CAN)	NOx Sensor temperature out of range	Diesel engine
5506	7	-	HC regeneration switch stuck closed	Diesel engine
5507	2	-	HC regeneration request not plausible	Diesel engine
5508	31	HC Injection	HCl Doser: Dosing release error	Diesel engine
5541	0	P4 Pressure	Turbine Downstream Pressure Sensor: Signal range check high	Diesel engine
5541	1	P4 Pressure	Turbine Downstream Pressure Sensor: Signal range check low	Diesel engine
5541	2	P4 Pressure	Diagnostic Fault Check for Dynamic Plausibility error	Diesel engine
5541	20	P4 Pressure	Turbine Downstream Pressure Sensor: Physical Signal above maximum limit	Diesel engine
5541	21	P4 Pressure	Turbine Downstream Pressure Sensor: Physical Signal below minimum limit	Diesel engine
5541	31	P4 Pressure	Diagnostic Fault Check for Static Plausibility error	Diesel engine
5571	0	Pressure Relieve Valve	Pressure Relief Valve: Pressure shock test performed, first step, rail pressure increase	Diesel engine
5571	10	Pressure Relieve Valve	Pressure Relief Valve: Pressure shock test performed, second step, rail pressure shock	Diesel engine
5571	11	Pressure Relieve Valve	Info: Pressure Relief Valve Opened	Diesel engine
5571	12	Pressure Relieve Valve	Pressure Relief Valve: Pressure shock test: Quantity balance check for pressure shock failed	Diesel engine
5571	14	Fuel pressure (Rail) control	Fuel pressure control Pressure Relief valve: maximum rail pressure in limp home mode with PRV and empty fuel tank	Diesel engine
5571	15	Pressure Relieve Valve	Opening count of PRV for wear out monitoring had exceeded maximum value	Diesel engine
5571	16	Pressure Relieve Valve	Open time of PRV for wear out monitoring had exceeded maximum value	Diesel engine
5571	2	Pressure Relieve Valve	Averaged rail pressure is outside the expected range with open PRV	Diesel engine
5571	31	Fuel pressure (Rail) control	Fuel pressure control Pressure Relief valve: maximum rail pressure in limp home mode with PRV	Diesel engine
5572	14	ECU Internal	Diagnostic fault check to report the ADC no-load test pulse error	Diesel engine
5572	2	ECU Internal	Diagnostic fault check to report the error in Voltage ratio in ADC monitoring	Diesel engine
5572	31	ECU Internal	Diagnostic fault check to report the ADC test error	Diesel engine
5573	19	Air conditioner	Signal error for CAN input	Diesel engine
5573	31	Air conditioner	Plausibility error for CAN input	Diesel engine
558	2	Accelerator Pedal	Diagnostic fault check of synchronism for double potentiometer and Low idle switch(LIS) .	Diesel engine
558	31	Accelerator Pedal	Accelerator pedal position: Plausibility against low idle switch	Diesel engine
5607	19	CAN Bus	Message data length Error of CAN-Receive-Frame CCVS2 from cruise control	Diesel engine
5607	2	Cruise control	Irreversible fault path which indicates the invalid combination of cruise control keys pressed	Diesel engine
5607	31	Cruise control	Reversible fault path which indicates the invalid combination of cruise control keys pressed	Diesel engine
5676	2	AEBS	Advanced Emergency Braking System status invalid	Diesel engine
5708	15	Coolant pressure	Coolant Pressure Sensor downstream water pump: value too high	Diesel engine
5708	17	Coolant pressure	Coolant Pressure Sensor downstream water pump: value too low, water pump cavitation risk	Diesel engine
5715	9	CAN NOx Sensor	Timeout Error of CAN-Receive-Frame NOx sensor (NOxSens: NOx concentration,Lambda function,Oxygen function, sensor status, sensor error)	Diesel engine
5745	12	SCR Reagent Heating	Supply module Temperature: Heater Temperature signal in failure range	Diesel engine
5745	2	SCR Reagent Heating	Supply module Temperature: Heater Temperature signal in invalid range	Diesel engine
574	9	CAN Bus	Timeout Error of CAN-Receive-Frame Electronic Transmission Control 1 (ETC1: shift and clutching information)	Diesel engine
5833	1	Injector Adjustment	Injection quantity correction value too low	Diesel engine
5833	16	Injector Adjustment	Injection quantity correction value too high	Diesel engine
5835	11	PM Sensor	Electrical error reported by the sensor	Diesel engine

dtc trouble codes diesel engine

5835	12	PM Sensor	Microcontroller error reported by the sensor	Diesel engine
5835	2	PM Sensor	Plausibility error reported by the sensor	Diesel engine
5835	7	PM Sensor	Sensor removed from exhaust line	Diesel engine
5838	0	SCR Inducement	Level 3 (Torque reduction), triggered by EGR valve blocked fault	Diesel engine
5838	15	SCR Inducement	Level 3 (creep mode), triggered by EGR valve blocked fault	Diesel engine
5838	16	SCR Inducement	Level 1 (Torque reduction), triggered by EGR valve blocked fault	Diesel engine
5838	31	Info	EGR shut off for intercooler or EGR cooler efficiency test	Diesel engine
5839	0	SCR Inducement	Level 3 (creep mode), triggered by Reagent Consumption fault	Diesel engine
5839	15	SCR Inducement	Warning, triggered by Reagent Consumption fault	Diesel engine
5839	16	SCR Inducement	Level 1 (Torque reduction), triggered by Reagent Consumption fault	Diesel engine
5840	0	SCR Inducement	Level 3 (creep mode), triggered by Reagent dosing interruption fault	Diesel engine
5840	14	SCR Reagent Feeding	SCR system is taking too long to start dosing	Diesel engine
5840	15	SCR Inducement	Warning, triggered by Reagent dosing interruption fault	Diesel engine
5840	16	SCR Inducement	Level 1 (Torque reduction), triggered by Reagent dosing interruption fault	Diesel engine
5840	31	SCR Reagent Feeding	SCR system is taking too long to start dosing (System without heater)	Diesel engine
5841	0	SCR Inducement	Level 3 (creep mode), triggered by Reagent Quality fault	Diesel engine
5841	15	SCR Inducement	Warning, triggered by Reagent Quality fault	Diesel engine
5841	16	SCR Inducement	Level 1 (Torque reduction), triggered by Reagent quality fault	Diesel engine
5846	31	Info	Torque Limitation active: Torque limitation caused by OBD performance limiter	Diesel engine
595	3	Cruise Control Lamp	Short circuit to battery error for power stage.	Diesel engine
595	4	Cruise Control Lamp	Short circuit to ground error for power stage.	Diesel engine
595	5	Cruise Control Lamp	No load error for power stage.	Diesel engine
595	6	Cruise Control Lamp	Over temperature error.	Diesel engine
597	19	Break Actuation	Main brake sensor: defective signal received from CAN	Diesel engine
597	2	Break Actuation	Main and redundant brake switch state different	Diesel engine
597	31	Break Actuation	Redundant brake sensor: defective signal received from CAN	Diesel engine
598	19	Clutch pedal	Sig Error for Clutch	Diesel engine
598	2	Clutch pedal	Plausibility check for Clutch	Diesel engine
604	2	Gear Box neutral	Check for error for CAN input	Diesel engine
6209	20	Coolant temp sensor	Engine Cooling Water Temperature Sensor: Physical Signal above maximum limit	Diesel engine
628	14	ECU Internal	ECU Internal: Diagnostic fault check to report multiple errors while checking the complete ROM-memory	Diesel engine
628	2	ECU EEPROM	ECU EEPROM: Error in block EEPROMData1	Diesel engine
628	31	ECU EEPROM	ECM problem: EEPROM values for baud rate cannot be read	Diesel engine
629	12	ECU Internal	Injector: ECM internal failure of Injector actuation (chip error)	Diesel engine
629	14	ECU internal Check	Error during Shut Off Path test, uncertain cause (defective injector or shut-off path)	Diesel engine
630	14	ECU EEPROM	EEP Write Error based on the error for one block	Diesel engine
630	19	ECU EEPROM	EEP Read Error based on the error for more blocks	Diesel engine
6302	2	Crankcase pressure	Value measured at ECM shut off not plausible	Diesel engine
630	31	ECU EEPROM	EEP sector erase failed	Diesel engine
636	2	Engine speed sensing	DFC for camshaft signal diagnosis - disturbed signal	Diesel engine
636	31	Engine speed sensing	DFC for camshaft offset angle exceeded	Diesel engine
636	9	Engine speed sensing	DFC for camshaft signal diagnosis - no signal	Diesel engine
637	2	Engine speed sensing	Crankshaft signal disturbance	Diesel engine
637	9	Engine speed sensing	Crankshaft signal loss	Diesel engine
639	2	CAN Bus	Error passive CAN Bus Node A	Diesel engine
639	31	CAN Bus	Error CAN Bus Node A	Diesel engine
641	0	Turbocharger control	Signal range check Max error on turbo charger actuator position sensor	Diesel engine
641	1	Turbocharger control	Signal range check Min error on turbo charger actuator position sensor	Diesel engine
641	11	Turbocharger control	eVGT Actuator: Control failure reported by actuator via CAN message	Diesel engine
641	12	Turbocharger control	At least two sensor defective (boost pressure, turbo speed, exhaust pressure)	Diesel engine
641	14	Turbocharger control	eVGT Actuator: Electrical failure detected	Diesel engine
641	16	Turbocharger control	Turbine overspeed defect recognition	Diesel engine
641	19	Turbocharger control	eVGT Actuator: Actuator reports system failure over CAN message	Diesel engine
641	3	Turbocharger control	Short circuit to battery of VTG actuator	Diesel engine
641	31	Turbocharger control	eVGT Actuator: General error reported by actuator via CAN message	Diesel engine

dtc trouble codes diesel engine

641	4	Turbocharger control	Short circuit to ground of VTG actuator	Diesel engine
641	5	Turbocharger control	Open load of VTG actuator	Diesel engine
641	6	Turbocharger control	eVGT Actuator: Actuator reports over temperature error	Diesel engine
641	7	Turbocharger control	eVGT Actuator: Motor effort too high	Diesel engine
651	14	Injector	Special pattern error at injector cylinder1 (Project specific)	Diesel engine
651	3	Injector	Short circuit, injector cylinder 1	Diesel engine
651	31	Injector Adjustment	IMA programming not correct for injector cyl 1	Diesel engine
651	5	Injector	Open load, injector cylinder 1	Diesel engine
651	6	Injector	Short circuit of high side to low side for injector of cylinder 1	Diesel engine
652	14	Injector	Special pattern error at injector cylinder4 (Project specific)	Diesel engine
652	3	Injector	Short circuit, injector cylinder 4	Diesel engine
652	31	Injector Adjustment	IMA programming not correct for injector cyl 4	Diesel engine
652	5	Injector	Open load, injector cylinder 4	Diesel engine
652	6	Injector	Short circuit of high side to low side for injector of cylinder 4	Diesel engine
653	14	Injector	Special pattern error at injector cylinder1 (Project specific)	Diesel engine
653	3	Injector	Short circuit, injector cylinder 1	Diesel engine
653	31	Injector Adjustment	IMA programming not correct for injector cyl 1	Diesel engine
653	5	Injector	Open load, injector cylinder 1	Diesel engine
653	6	Injector	Short circuit of high side to low side for injector of cylinder 1	Diesel engine
654	14	Injector	Special pattern error at injector cylinder3 (Project specific)	Diesel engine
654	3	Injector	Short circuit, injector cylinder 3	Diesel engine
654	31	Injector Adjustment	IMA programming not correct for injector cyl 3	Diesel engine
654	5	Injector	Open load, injector cylinder 3	Diesel engine
654	6	Injector	Short circuit of high side to low side for injector of cylinder 3	Diesel engine
655	14	Injector	Special pattern error at injector cylinder1 (Project specific)	Diesel engine
655	3	Injector	Short circuit, injector cylinder 1	Diesel engine
655	31	Injector Adjustment	IMA programming not correct for injector cyl 1	Diesel engine
655	5	Injector	Open load, injector cylinder 1	Diesel engine
655	6	Injector	Short circuit of high side to low side for injector of cylinder 1	Diesel engine
656	14	Injector	Special pattern error at injector cylinder2 (Project specific)	Diesel engine
656	3	Injector	Short circuit, injector cylinder 2	Diesel engine
656	31	Injector Adjustment	IMA programming not correct for injector cyl 2	Diesel engine
656	5	Injector	Open load, injector cylinder 2	Diesel engine
656	6	Injector	Short circuit of high side to low side for injector of cylinder 2	Diesel engine
675	3	Glow lamp	Short circuit to battery error	Diesel engine
675	4	Glow lamp	Short circuit to ground error	Diesel engine
675	5	Glow lamp	No load error	Diesel engine
675	6	Glow lamp	Over temperature error on the power stage	Diesel engine
677	0	Starter control	Maximal number of engine start exceeded (starter reached end of life)	Diesel engine
6772	31	PM Sensor	PM sensor: Heater error reported by the sensor	Diesel engine
677	3	Starter control	Starter Relay HS: power stage output short circuit to battery	Diesel engine
677	4	Starter control	Starter Relay HS: power stage output short circuit to ground	Diesel engine
6778	31	PM Sensor	Supply error reported by the sensor	Diesel engine
6819	31	SCR Inducement	Inducement: repeated offender logic activated	Diesel engine
729	0	Air heater	DFC to SRC High error when heater is On	Diesel engine
729	1	Air heater	DFC to SRC Low error when heater is On	Diesel engine
729	13	Air heater	Grid Heater: Relay 2 stuck closed	Diesel engine
729	2	Air heater	Grid Heater: Heater feedback ON when commanded OFF	Diesel engine
729	20	Air heater	DFC to SRC High error when heater is Off	Diesel engine
729	21	Air heater	DFC to SRC Low error when heater is Off	Diesel engine
729	3	Air heater	Short circuit to battery on power stage 0	Diesel engine
729	31	Air heater	Grid Heater always switched on	Diesel engine
729	4	Air heater	Short circuit to ground error on power stage 0	Diesel engine
729	5	Air heater	Open load on Power stage 0	Diesel engine
729	6	Air heater	Over temperature on Power stage 0	Diesel engine

dtc trouble codes diesel engine

729	7	Air heater	Grid Heater: Relay 1 stuck closed	Diesel engine
730	0	Air heater	Over temperature on Power stage 1	Diesel engine
730	11	Air heater	Short circuit to ground error on power stage 1	Diesel engine
730	14	Air heater	Short circuit to battery on power stage 1	Diesel engine
730	2	Air heater	Grid Heater: Heater feedback OFF when commanded ON	Diesel engine
730	3	Air heater	Short circuit to battery on power stage 2	Diesel engine
730	31	Air heater	Open load on Power stage 1	Diesel engine
730	4	Air heater	Short circuit to ground error on power stage 2	Diesel engine
730	5	Air heater	Open load on Power stage 2	Diesel engine
730	6	Air heater	Over temperature on Power stage 2	Diesel engine
74	31	Vehicle Controller	Vehicle speed limiter error (severe inducement not possible)	Diesel engine
767	31	Gear Box reverse	Plausibility error in reverse gear signal	Diesel engine
81	0	DPF pressure sensing	DPF upstream pressure sensor: SRC value above maximum limit	Diesel engine
81	1	DPF pressure sensing	DPF upstream pressure sensor: SRC value below minimum limit	Diesel engine
81	12	DPF pressure monitoring	DPF filter upstream pressure sensor: Frozen sensor	Diesel engine
81	20	DPF pressure monitoring	DPF upstream pressure sensor: Physical Signal above maximum limit	Diesel engine
81	21	DPF pressure monitoring	DPF upstream pressure sensor: Physical Signal below minimum limit	Diesel engine
84	0	Vehicle speed sensor	Maximum threshold error for vehicle speed	Diesel engine
84	2	Vehicle speed sensor	Vehicle speed is not plausible to engine speed and torque	Diesel engine
84	20	Vehicle speed sensor	Physical signal range check High	Diesel engine
84	21	Vehicle speed sensor	Physical signal range check Low	Diesel engine
84	3	Vehicle speed sensor	Short circuit to battery	Diesel engine
84	4	Vehicle speed sensor	Short circuit to ground	Diesel engine
84	7	Vehicle speed sensor	Sensor not connected	Diesel engine
883	3	Auxiliary Break lamp	Short circuit to battery error for Auxiliary Brake Lamp	Diesel engine
883	4	Auxiliary Break lamp	Short circuit to ground error for Auxiliary Brake Lamp	Diesel engine
883	5	Auxiliary Break lamp	No load error for Auxiliary Brake Lamp	Diesel engine
883	6	Break lamp	Over temperature error	Diesel engine
904	19	CAN Bus	Data Length error for CAN Receive Message EBC2	Diesel engine
904	9	Vehicle speed sensor	CAN Bus: Timeout Error of CAN-Receive-Frame Wheel Speed Information	Diesel engine
91	14	Accelerator Pedal	It is the plausibility check between APP1 and APP2	Diesel engine
91	2	Accelerator Pedal	Implausibility between brake and accelerator pedal detected	Diesel engine
91	20	Accelerator Pedal	Signal Range Check High for APP1	Diesel engine
91	21	Accelerator Pedal	Signal Range Check Low for APP1	Diesel engine
91	31	ECU Internal	Diagnostic fault check to report the accelerator pedal position error	Diesel engine
931	3	Presupply pump	Short circuit to battery of pre-supply pump output	Diesel engine
931	4	Presupply pump	Short circuit to ground of pre-supply pump output	Diesel engine
931	5	Presupply pump	Open load of pre-supply pump output	Diesel engine
931	6	Presupply pump	Over temperature error on ECU power stage for Pre supply pump	Diesel engine
94	0	Fuel pressure	Fuel Pre-Filter Pressure: Signal Range Check High	Diesel engine
94	1	Fuel pressure	Fuel Pre-Filter Pressure: Signal Range Check Low	Diesel engine
94	14	Fuel low pressure cycle	SRC Low for fuel pressure (low pressure cycle)	Diesel engine
94	15	Fuel low pressure cycle	Maximum fuel pressure error in dynamic plausibility test (low pressure)	Diesel engine
94	16	Fuel pressure	Fuel Pre-Filter Pressure: Maximum plausibility error	Diesel engine
94	17	Fuel low pressure cycle	Minimum fuel pressure error in dynamic plausibility test (low pressure)	Diesel engine
94	18	Fuel pressure	Fuel Pre-Filter Pressure: Minimum plausibility error	Diesel engine
94	19	Fuel pressure	Fuel Pre-Filter Pressure: Signal error on CAN for fuel pressure	Diesel engine
94	2	Fuel low pressure cycle	Fuel low pressure cycle: DFC for CAN message of fuel pressure sensor (low pressure)	Diesel engine
94	31	Fuel low pressure cycle	Fuel low pressure cycle: SRC High for fuel pressure (low pressure cycle)	Diesel engine
95	0	Fuel pressure	Fuel main Filter Pressure: Signal Range Check High	Diesel engine
95	1	Fuel pressure	Fuel main Filter Pressure: Signal Range Check Low	Diesel engine
95	14	Fuel pressure	Fuel main Filter Pressure: Minimum plausibility error	Diesel engine
95	15	Fuel Filter	Fuel Filter is clogged (sensor switch active)	Diesel engine
95	16	Fuel Filter	Main fuel filter clogged (mild clogging)	Diesel engine
95	19	Fuel pressure	Fuel main Filter Pressure: Signal error on CAN for fuel pressure	Diesel engine

dtc trouble codes diesel engine

95	2	Fuel Filter	Fuel Filter Clog Switch blocked in clogged status	Diesel engine
95	31	Fuel pressure	Fuel main Filter Pressure: Maximum plausibility error	Diesel engine
95	7	Fuel Filter	Main fuel filter clogged (severe clogging)	Diesel engine
96	1	Fuel tank level	Fuel tank below critical level or danger of an air contaminated hydraulic system	Diesel engine
96	19	CAN Bus	Incorrect data length Error of CAN-Receive-Frame DD from Dash Display	Diesel engine
96	9	CAN Bus	Timeout Error of CAN-Receive-Frame Dashboard (DashDspl: fuel level)	Diesel engine
97	0	Water in Fuel determination	Water in Fuel Filter Sensor: Signal range check high	Diesel engine
970	19	CAN Bus	Data Length error for CAN Receive Message EBC1VS from BC or VCM	Diesel engine
970	31	Engine compartment button	Stop button pressed	Diesel engine
970	9	CAN Bus	Timeout Error of CAN-Receive-Frame EBC1VS from BC or VCM	Diesel engine
97	1	Water in Fuel determination	Water in Fuel Filter Sensor: Signal range check low	Diesel engine
97	12	Water in Fuel determination	Water in fuel Sensor defective	Diesel engine
97	31	Water in Fuel determination	Water in Fuel	Diesel engine
973	2	Break Actuation	Engine brake preselection not plausible	Diesel engine
976	2	PTO actuation	Defect Fault Check for non plausible signal value	Diesel engine
98	0	Oil Level sensor	Duty cycle greater than maximum	Diesel engine
98	1	Oil Level sensor	Duty cycle lesser than minimum	Diesel engine
98	12	Oil Level sensor	Oil level sensor fault	Diesel engine
98	2	Oil Level sensor	Plausibility Check	Diesel engine
987	3	Service lamp Dashboard	Short circuit to battery error	Diesel engine
987	4	Service lamp Dashboard	Short circuit to ground error	Diesel engine
987	5	Service lamp Dashboard	No load error	Diesel engine
987	6	Service lamp Dashboard	Over Temperature error	Diesel engine
99	12	Oil Lubricant	Oil filter clogging sensor defective	Diesel engine
99	16	Oil Lubricant	Oil filter clogged	Diesel engine
997	3	Cooling fan control	Fan digital: Short Circuit to battery error on the output power stage	Diesel engine
997	4	Cooling fan control	Fan digital: Short Circuit to Ground error on the output power stage	Diesel engine
997	5	Cooling fan control	Fan digital: Open Load error on the output power stage	Diesel engine
997	6	Cooling fan control	Fan digital: Over Temperature error on the output power stage	Diesel engine
519495	9	CAN Bus	TimeOut of CAN-Receive-Frame TSC1AE from ABS/ESP/ASR (active mode)	Diesel engine
519495	14	CAN Bus	CAN-Receive-Frame of TSC1AR rolling counter error (frame missed)	Diesel engine
519495	19	CAN Bus	CAN-Receive-Frame of TSC1AR, Checksum error	Diesel engine