10. Fault list summary

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
1	<u>U0607</u>	0	19	Timeout Error of CAN-Receive-Frame TSC1VE (Engine speed & Torque demand)	ON	Level1 (Mild)				
2	<u>P042E</u>	27	0	EGR Position Open jammed fault	Blink or ON	Level2 (severe)			EGR Block (EGR only)	Active Forced
3	<u>P042F</u>	27	1	EGR Position Closed jammed fault	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
4	<u>P0406</u>	27	3	EGR Position Sensor High Fault	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
5	<u>P0407</u>	27	4	EGR Position Sensor Low Fault	ON	No			EGR Block (EGR only)	Active Forced
6	<u>P0C17</u>	27	20	EGR Close Position Learning Range Over Fault	ON	No			EGR Block (EGR only)	Active Forced
7	<u>P0C18</u>	27	22	EGR Close Position Learning Drift Fault for long time	ON	No			EGR Block (EGR only)	Active Forced
8	<u>P0C19</u>	27	23	EGR Close Position Learning Drift Fault for short time	ON	No			EGR Block (EGR only)	Active Forced
9	<u>P0223</u>	29	3	Accel pedal position track2 sensor High fault	ON	Level1 (Mild)				
10	<u>P0222</u>	29	4	Accel pedal position track2 sensor Low fault	ON	Level1 (Mild)				
11	<u>P0221</u>	29	15	Hand pedal position track2 sensor High fault	ON	Level1 (Mild)				
12	<u>P0224</u>	29	17	Hand pedal position track2 sensor Low fault	ON	Level1 (Mild)				
13	<u>P02E4</u>	51	0	Throttle valve Position Open jammed fault	ON	No				Active Forced
14	<u>P02E5</u>	51	1	Throttle valve Position Closed jammed fault	ON	No				Active Forced
15	<u>P02E9</u>	51	3	Throttle valve Position Sensor High Fault	ON	No				Active Forced
16	<u>P02E8</u>	51	4	Throttle valve Position Sensor Low Fault	ON	No				Active Forced
17	P02EA	51	22	Throttle valve Close Position Learning Drift Fault for long time	ON	No				Active Forced
18	P02EB	51	23	Throttle valve Close Position Learning Drift Fault for short time	ON	No				Active Forced
19	<u>P02E7</u>	51	30	Throttle valve Close Position Learning Drift Fault	ON	No				
20	P0123	91	3	Accel pedal position track1 sensor High fault	ON	Level1 (Mild)				
21	<u>P0122</u>	91	4	Accel pedal position track1 sensor Low fault	ON	Level1 (Mild)				
22	<u>P2135</u>	91	11	Accel pedal position sensor plausibility fault (Not synchronism between track1 and track2)	ON	Level1 (Mild)				

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
23	<u>P2136</u>	91	12	Hand pedal position sensor plausibility fault (Not synchronism between track1 and track2)	ON	Level1 (Mild)				
24	<u>P0121</u>	91	15	Hand pedal position track1 sensor High fault	ON	Level1 (Mild)				
25	<u>P0124</u>	91	17	Hand pedal position track1 sensor Low fault	ON	Level1 (Mild)				
26	<u>U0606</u>	91	19	Timeout Error of CAN-Receive-Frame EEC2 (Pedal)	ON	Level1 (Mild)				
27	<u>P2267</u>	97	3	Water In Fuel Sensor signal range high fault	Blink	Level2 (severe)				
28	<u>P2266</u>	97	4	Water In Fuel Sensor signal range low fault	Blink	Level2 (severe)				
29	P2269	97	14	Water in fuel detected – Warning step	ON	No				
30	<u>P2265</u>	97	23	Water in fuel detected – Torque de-rate step (After 20min)	Blink	Level2 (severe)				
31	<u>P250D</u>	98	3	Oil combination (Level and temperature) signal short circuit to battery error	ON	No				
32	<u>P250C</u>	98	4	Oil combination (Level and temperature) signal short circuit to ground error	ON	No				
33	<u>P250A</u>	98	5	Oil combination (Level and temperature) sensor itself open or short circuit error	ON	No				
34	P250F	98	18	Engine oil level is too low (Low step3)	ON	No				
35	<u>P350D</u>	98	22	Oil combination (Level and temperature) sensor timeout fault	ON	No				
36	<u>P0196</u>	175	11	Oil combination (Level and temperature) sensor itself Oil temperature out of range error	ON	No				
37	<u>P350E</u>	98	23	Oil combination (Level and temperature) sensor itself Voltage out of range error	ON	No				
38	P350F	98	24	Engine oil level is low (Low step2)	ON	No				
39	<u>P1522</u>	100	1	Engine Oil Pressure Too Low Fault	Blink	Level2 (severe)	Used			Active Forced
40	<u>P0523</u>	100	3	Engine Oil Pressure Sensor High Fault	Blink	Level2 (severe)	Used			
41	<u>P0522</u>	100	4	Engine Oil Pressure Sensor Low Fault	Blink	Level2 (severe)	Used			
42	<u>P0108</u>	102	3	Intake Manifold Pressure Sensor High Fault	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
43	<u>P0107</u>	102	4	Intake Manifold Pressure Sensor Low Fault	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
44	P00AD	105	3	Intake manifold temperature sensor High fault	ON	No			EGR Block (EGR only)	Active Forced
45	P00AC	105	4	Intake manifold temperature sensor Low fault	ON	No			EGR Block (EGR only)	Active Forced
46	P10AD	105	16	Intake manifold temperature High fault	ON	No				Active Forced
47	P2229	108	3	Atmospheric Pressure Sensor High Fault	ON	No				
48	<u>P2228</u>	108	4	Atmospheric Pressure Sensor Low Fault	ON	No				

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
49	<u>P1118</u>	110	0	Coolant high temperature Fault	ON	depend on temp.				Active Forced
50	<u>P0118</u>	110	3	Coolant Temperature Sensor High Fault	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
51	<u>P0117</u>	110	4	Coolant Temperature Sensor Low Fault	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
52	<u>P011E</u>	110	10	Coolant Temperature Plausibility Fault	ON	Level1 (Mild)				
53	<u>P00BC</u>	132	1	Intake manifold pressure low plausibility fault (Compressor out pressure too low)	Blink	Level2 (severe)				Active Forced
54	<u>P0103</u>	132	3	Signal range check high error for Air mass flow sensor	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
55	<u>P0102</u>	132	4	Signal range check low error for Air mass flow sensor	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
56	<u>P0101</u>	132	5	Battery voltage error of Air mass flow sensor	ON	No				Active Forced
57	<u>P0100</u>	132	19	Signal error of Air mass flow sensor	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
58	<u>P00BE</u>	132	21	Sensitivity drift error low for Air mass flow sensor	Blink or ON	Level2 (severe)			EGR Block (EGR only)	Active Forced
59	P0087	157	10	Fuel Leakage is detected based on fuel quantity balance	ON	Level1 (Mild)	Used			Active Forced
60	P0002	157	11	Maximum positive deviation of rail pressure exceeded	ON	Level1 (Mild)	Used			Active Forced
61	<u>P190C</u>	157	26	Rail pressure too low fault	ON	Level1 (Mild)	Used			Active Forced
62	<u>P190B</u>	157	27	Maximum rail pressure exceeded	ON	Level1 (Mild)				Active Forced
63	<u>P1934</u>	157	28	Pressure relief valve(PRV) failure	Blink	Level2 (severe)	Used	Used		Active Forced
64	P1073	171	0	Environment Temperature Too High	ON	No				
65	<u>P0073</u>	171	3	Environment Temperature Sensor Signal High	ON	No				
66	<u>P0072</u>	171	4	Environment Temperature Sensor Signal Low	ON	No				
67	<u>P107D</u>	172	0	Inlet air temperature High fault	ON	No				
68	<u>P007D</u>	172	3	Inlet air temperature sensor High fault	ON	No				Active Forced
69	P007C	172	4	Inlet air temperature sensor Low fault	ON	No				Active Forced
70	P0421	173	1	DOC Exothermal Efficiency Fault	ON	No				Active
71	<u>P1183</u>	174	0	Fuel temperature high fault	ON	depend on temp.				Active Forced
72	<u>P0183</u>	174	3	Fuel Temperature Sensor High Fault	ON	No				Active Forced
73	<u>P0182</u>	174	4	Fuel Temperature Sensor Low Fault	ON	No				Active Forced
74	<u>P273F</u>	177	15	Transmission oil temperature high fault (CAN)	ON	Level1 (Mild)				

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
75	<u>P274F</u>	177	16	Transmission oil temperature high fault (H/W Switch)	ON	Level1 (Mild)				
76	P0219	190	0	Engine over speed detection fault	ON	No				
77	P1563	444	0	Battery Voltage High fault (Warning)	ON	No				
78	P1562	444	1	Battery Voltage Low fault (Warning)	ON	No				
79	<u>P1565</u>	444	2	Powerstage diagnosis could be disabled due to low Battery voltage	ON	No				
80	<u>P0563</u>	444	3	Battery Voltage Signal Range Max fault	ON	Level1 (Mild)				Active Forced
81	<u>P0562</u>	444	4	Battery Voltage Signal Range Min fault	ON	Level1 (Mild)				Active Forced
82	<u>P1564</u>	444	12	Powerstage diagnosis disabled due to high Battery voltage	ON	No				
83	<u>P0512</u>	626	12	Starter switch stuck fault (Cranking request is too long.)	ON	No				
84	<u>P0372</u>	636	2	Crank Signal disturbed fault	Blink	Level2 (severe)	Used			Active Forced
85	<u>P0374</u>	636	8	Cranks No signal error	Blink	Level2 (severe)	Used			Active Forced
86	P0344	637	2	Cam Signal disturbed fault	ON	No				
87	P0342	637	8	Cam Signal Lost fault	ON	No				
88	<u>P0340</u>	637	30	Cam Signal Drift Fault	ON	No				
89	<u>U0029</u>	639	2	CAN communication error	ON	Level1 (Mild)				
90	<u>U0028</u>	639	19	CAN bus off error	ON	Level1 (Mild)				
91	<u>P268C</u>	651	2	Injector Code(IQA) Program Missing Fault (Cylinder#1)	ON	No				
92	<u>P02EE</u>	651	4	Injector Short circuit Fault (Cylinder #1)	ON	No				Active Forced
93	<u>P0201</u>	651	5	Injector Open circuit Fault (Cylinder #1)	ON	No				Active Forced
94	<u>P32EE</u>	651	22	Injector High Low side Short circuit Fault (Cylinder #1)	ON	No				Active Forced
95	<u>P268D</u>	652	2	Injector Code(IQA) Program Missing Fault (Cylinder#2)	ON	No				
96	P02EF	652	4	Injector Short circuit Fault (Cylinder #2)	ON	No				Active Forced
97	<u>P0202</u>	652	5	Open load on the power stage for cylinder #2	ON	No				Active Forced
98	<u>P32EF</u>	652	22	Injector High Low side Short circuit Fault (Cylinder #2)	ON	No				Active Forced
99	<u>P268E</u>	653	2	Injector Code(IQA) Program Missing Fault (Cylinder#3)	ON	No				
100	<u>P02F0</u>	653	4	Injector Short circuit Fault (Cylinder #3)	ON	No				Active Forced
101	<u>P0203</u>	653	5	Injector Open circuit Fault (Cylinder #3)	ON	No				Active Forced

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
102	<u>P32F0</u>	653	22	Injector High Low side Short circuit Fault (Cylinder #3)	ON	No				Active Forced
103	<u>P268F</u>	654	2	Injector Code(IQA) Program Missing Fault (Cylinder#4)	ON	No				
104	<u>P02F1</u>	654	4	Injector Short circuit Fault (Cylinder #4)	ON	No				Active Forced
105	<u>P0204</u>	654	5	Injector Open circuit Fault (Cylinder #4)	ON	No				Active Forced
106	<u>P32F1</u>	654	22	Injector High Low side Short circuit Fault (Cylinder #4)	ON	No				Active Forced
107	<u>P0384</u>	676	3	Glow plug Relay driver Short circuit to Battery Fault	ON	No				
108	P0383	676	4	Glow plug Relay driver Short circuit to Ground Fault	ON	No				
109	<u>P0380</u>	676	5	Glow plug Relay driver Open circuit Fault	ON	No				
110	<u>U1003</u>	970	12	Engine shut off request through CAN (EBC1)	OFF	No		Used		
111	P0215	970	22	Engine shut off request through hardwire	OFF	No		Used		
112	<u>P028E</u>	975	3	PWM FAN Output short to battery circuit fault	ON	No				
113	<u>P028D</u>	975	4	PWM FAN Output short to ground circuit fault	ON	No				
114	P028A	975	5	PWM FAN Output open circuit fault	ON	No				
115	P1931	987	3	CE(Check engine) Lamp Short to Battery	ON	No				
116	<u>P192F</u>	987	4	CE(Check engine) Lamp Short to Ground	ON	No				
117	P192E	987	5	CE(Check engine) Lamp Open circuit	ON	No				
118	<u>P0004</u>	1076	3	Fuel Metering unit plausibility error in overrun mode	ON	Level1 (Mild)	Used			Active Forced
119	<u>P0003</u>	1076	4	Fuel Metering unit plausibility error in idle mode	ON	Level1 (Mild)	Used			Active Forced
120	<u>P0254</u>	1076	16	Maximum negative rail pressure deviation with metering unit on lower limit is exceeded	ON	Level1 (Mild)	Used			Active Forced
121	<u>P0252</u>	1076	20	Rail pressure too low for injection	ON	No				
122	P2381	1081	3	Glow plug Lamp Short to Battery	ON	No				
123	P1904	1081	4	Glow plug Lamp Short to Ground	ON	No				
124	<u>P0381</u>	1081	5	Glow plug Lamp Open circuit	ON	No				
125	<u>P0669</u>	1207	0	ECU temperature High fault	ON	No				
126	<u>P06AE</u>	1207	3	ECU temperature sensor High fault (Short circuit to battery)	ON	No				
127	<u>P06AD</u>	1207	4	ECU temperature sensor Low fault (Short circuit to ground)	ON	No				
128	<u>P018D</u>	1382	0	Fuel filter pressure high fault	ON	Level1 (Mild)				
129	<u>P018C</u>	1382	1	Fuel filter pressure low fault	Blink	Level2 (Severe)				

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
130	<u>P01C6</u>	1382	3	Fuel filter pressure sensor signal high fault	ON	No				
131	P01C2	1382	4	Fuel filter pressure sensor signal low fault	ON	No				
132	<u>P01C4</u>	1382	7	Fuel Filter Pressure low detection 1 - Warning	ON	No				
133	<u>P01C5</u>	1382	13	Fuel Filter Pressure low detection 2 - Torque reduction	ON	Level1 (Mild)				
134	P0685	1485	7	ECU Main relay Stuck fault	ON	No				
135	<u>P068A</u>	1485	11	ECU Main relay Early opening fault	ON	No				
136	P2547	1568	3	Multi-torque switch signal too high fault	ON	No				
137	P2546	1568	4	Multi-torque switch signal too low fault	ON	No				
138	<u>P062D</u>	1612	3	Injector bank 1st Short circuit fault	ON	No				Active Forced
139	<u>P062E</u>	1612	12	Injector bank 2nd Short circuit fault	ON	No				Active Forced
140	<u>P0528</u>	1639	3	Fan speed too high fault	ON	No				
141	<u>P0529</u>	1639	4	Fan speed too low fault	ON	No				
142	<u>P0527</u>	1639	11	Fan speed signal long period fault path	ON	No				
143	<u>P1230</u>	1761	19	DEF Tank Level Signal error	ON	SCR induce			Tampering	
144	<u>P2505</u>	1867	1	ECU over temperature for SCR Monitoring	ON	No				
145	<u>P2508</u>	1867	3	"ABE active" report due to overvoltage detection	ON	No				
146	<u>P2507</u>	1867	4	"ABE active" report due to undervoltage detection	ON	No				
147	<u>P2511</u>	1867	11	"WDA/ABE active" report due to unknown reason	ON	No				
148	<u>P2509</u>	1867	19	"WDA active" report due to errors in query- response communication	ON	No				
149	P2506	1867	22	ECU Software Reset 0 fault	ON	No				
150	<u>P1546</u>	2789	0	Turbine inlet temperature High fault	ON	Level1 (Mild)				Active Forced
151	<u>P0546</u>	2789	3	Turbine inlet temperature sensor High fault	ON	No			EGR Block (EGR only)	
152	<u>P0545</u>	2789	4	Turbine inlet temperature sensor Low fault	ON	No			EGR Block (EGR only)	
153	<u>P0544</u>	2789	11	Turbine inlet temperature Plausibility Fault	ON	No				Active Forced
154	P2145	2791	3	EGR H-Bridge Driver Short circuit to battery	ON	No			EGR Block (EGR only)	Active Forced
155	<u>P2144</u>	2791	4	EGR H-Bridge Driver Short circuit to ground	ON	No			EGR Block (EGR only)	Active Forced
156	<u>P2143</u>	2791	5	EGR H-Bridge Driver Open Circuit Fault	ON	No			EGR Block (EGR only)	Active Forced
157	<u>P205E</u>	3031	14	DEF Tank temperature overheated	ON	No				
158	<u>P1045</u>	3031	16	DEF Tank Temperature sensor High plausibility fault	ON	SCR induce			Tampering	

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
159	<u>P1044</u>	3031	18	DEF Tank Temperature sensor Low plausibility fault	ON	SCR induce			Tampering	IIIII
160	P2397	3216	4	NOx sensor signal low fault (Upstream NOx sensor)	ON	SCR induce			Dosing interrupt	
161	<u>P225D</u>	3216	18	NOx sensor 1 (Upstream) concentration Low plausibility fault	ON	SCR induce			Tampering	
162	<u>U030D</u>	3219	7	NOx sensor heating error (Upstream NOx sensor)	ON	SCR induce			Tampering	
163	<u>P2203</u>	3224	5	NOx sensor Open circuit fault (Upstream NOx sensor)	ON	SCR induce			Tampering	
164	<u>P2202</u>	3224	6	NOx sensor Short circuit fault (Upstream NOx sensor)	ON	SCR induce			Tampering	
165	<u>P2398</u>	3226	4	NOx sensor signal low fault (Downstream NOx sensor)	ON	SCR induce			Dosing interrupt	
166	<u>U030E</u>	3229	7	NOx sensor heating error (Downstream NOx sensor)	ON	SCR induce			Tampering	
167	<u>P2216</u>	3234	5	NOx sensor Open circuit fault (Downstream NOx sensor)	ON	SCR induce			Tampering	
168	<u>P2215</u>	3234	6	NOx sensor Short circuit fault (Downstream NOx sensor)	ON	SCR induce			Tampering	
169	<u>P0408</u>	3236	16	Maximum EGR rate governor deviation	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
170	<u>P049B</u>	3236	0	EGR rate slow response positive error	ON	Level1 (Mild)			EGR Block (EGR only)	Active Forced
171	<u>P1033</u>	3242	0	DPF(SDPF) inlet temperature High fault	ON	No				Active Forced
172	<u>P2033</u>	3242	3	DPF(SDPF) inlet temperature sensor High fault	ON	SCR induce			Tampering	Active Forced
173	P2032	3242	4	DPF(SDPF) inlet temperature sensor Low fault	ON	SCR induce			Tampering	Active Forced
174	<u>P2034</u>	3242	11	DPF(SDPF) inlet temperature Plausibility Fault	ON	SCR induce			Tampering	Active Forced
175	P2035	3242	20	DPF(SDPF) inlet temperature Drift fault	ON	Level1 (Mild)				Active Forced
176	<u>P2455</u>	3251	3	DPF differential pressure sensor High fault	ON	Level1 (Mild)			Tampering	Active Forced
177	<u>P2454</u>	3251	4	DPF differential pressure sensor Low fault	ON	Level1 (Mild)			Tampering	Active Forced
178	<u>P3052</u>	3251	13	DPF differential pressure drift fault	ON	No				Active Forced
179	<u>P1454</u>	3251	18	DPF differential pressure too low fault	ON	Level1 (Mild)			Tampering	Active Forced
180	<u>P244A</u>	3251	18	DPF differential pressure too low fault	ON	Level1 (Mild)			Tampering	Active Forced
181	<u>P263D</u>	3360	14	DEF pressure line heater error (Perform afterrun)	ON	SCR induce			Dosing interrupt	
182	<u>P2047</u>	3361	3	DEF dosing valve actuator Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
183	<u>P2048</u>	3361	4	DEF dosing valve actuator Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
184	P2049	3361	5	DEF dosing valve actuator Open Circuit Fault	ON	SCR induce			Tampering	
185	<u>P202E</u>	3361	13	DEF dosing valve actuator Over temperature Fault	ON	SCR induce			Dosing interrupt	
186	<u>P2C11</u>	3361	14	DEF dosing valve plausibility fault	ON	SCR induce			Tampering	
187	P2050	3361	22	DEF dosing valve actuator HS(High side) Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
188	P2051	3361	23	DEF dosing valve actuator HS(High side) Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	
189	<u>P208E</u>	3361	27	DEF Dosing valve is blocked	ON	SCR induce			Tampering	
190	<u>P20B4</u>	3363	3	DEF Tank heating coolant valve output Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
191	P20B3	3363	4	DEF Tank heating coolant valve output Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	
192	P20B1	3363	5	DEF Tank heating coolant valve output Open circuit Fault	ON	SCR induce			Tampering	
193	<u>P30B1</u>	3363	7	DEF Tank heating coolant valve output Over temperature Fault	ON	SCR induce			Dosing interrupt	
194	<u>P0659</u>	3509	3	ECU Sensor Supply (5V)1 Over voltage fault	ON	Level1 (Mild)				Active Forced
195	P0658	3509	4	ECU Sensor Supply (5V)1 Under voltage fault	ON	Level1 (Mild)				Active Forced
196	<u>P1657</u>	3509	5	ECU Sensor Supply (5V)1 voltage fault	ON	Level1 (Mild)				Active Forced
197	<u>P0657</u>	3509	6	ECU Sensor Supply (5V)1 Short circuit to ground	ON	Level1 (Mild)				
198	<u>P0641</u>	3509	11	ECU Sensor Supply (5V) Overvoltage monitoring error	ON	No				
199	<u>P2671</u>	3510	3	ECU Sensor Supply (5V)2 Over voltage fault	ON	Level1 (Mild)				Active Forced
200	<u>P2670</u>	3510	4	ECU Sensor Supply (5V)2 Under voltage fault	ON	Level1 (Mild)				Active Forced
201	<u>P1669</u>	3510	5	ECU Sensor Supply (5V)2 voltage fault	ON	Level1 (Mild)				Active Forced
202	P2669	3510	6	ECU Sensor Supply (5V)2 Short circuit to ground	ON	Level1 (Mild)				
203	P0642	3510	11	ECU Sensor Supply (5V) Undervoltage monitoring error	ON	No				
204	P2686	3511	3	ECU Sensor Supply (5V)3 Over voltage fault	ON	Level1 (Mild)				Active Forced
205	<u>P2685</u>	3511	4	ECU Sensor Supply (5V)3 Under voltage fault	ON	Level1 (Mild)				Active Forced
206	<u>P1684</u>	3511	5	ECU Sensor Supply (5V)3 voltage fault	ON	Level1 (Mild)				Active Forced
207	<u>P2684</u>	3511	6	ECU Sensor Supply (5V)3 Short circuit to ground	ON	Level1 (Mild)				

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
208	<u>P106D</u>	3516	0	DEF Quality Too High fault	ON	SCR induce			DEF Quality	
209	<u>P106C</u>	3516	1	DEF Quality Too Low fault	ON	SCR induce			DEF Quality	
210	P203F	3517	18	DEF Tank level is empty	ON	SCR induce			DEF level	
211	<u>U1028</u>	3520	3	DEF Quality Sensor Open circuit	ON	SCR induce			Tampering	
212	<u>U1030</u>	3520	4	DEF Quality Sensor Short circuit	ON	SCR induce			Tampering	
213	<u>P203A</u>	3532	3	DEF Level Sensor Open circuit	ON	SCR induce			Tampering	
214	P2041	3532	4	DEF Level Sensor Short circuit	ON	SCR induce			Tampering	
215	P25BC	3695	3	DPF regeneration inhibit switch Stuck (Short to Battery) fault (Hardwire)	ON	No				
216	<u>P25BB</u>	3696	3	DPF regeneration enable switch Stuck (Short to Battery) fault (Hardwire)	ON	No				
217	<u>P25BA</u>	3696	11	DPF regeneration inhibit & enable switch plausibility fault (Hardwire)	ON	No				
218	P2611	3697	3	DPF lamp 1 (DPF regeneration switch enable lamp) Short to Battery	ON	No				
219	<u>P260F</u>	3697	4	DPF lamp 1 (DPF regeneration switch enable lamp) Short to Ground	ON	No				
220	<u>P260E</u>	3697	5	DPF lamp 1 (DPF regeneration switch enable lamp) Open circuit	ON	No				
221	<u>P246B</u>	3715	14	DPF regeneration failure (DPF regeneration is not performed well during machine operation mode)	OFF	No				Active
222	<u>P242F</u>	3720	16	DPF Ash loading High fault (Ash cleaning is needed)	ON	No				
223	<u>P025D</u>	4082	3	Fuel metering unit Short circuit to Battery fault	ON	Level1 (Mild)				Active Forced
224	<u>P025C</u>	4082	4	Fuel metering unit Short circuit to Ground fault	ON	Level1 (Mild)				Active Forced
225	<u>P025A</u>	4082	5	Fuel metering unit Open circuit fault	ON	Level1 (Mild)				Active Forced
226	<u>P025B</u>	4082	7	Fuel metering unit Over temperature fault	ON	Level1 (Mild)				Active Forced
227	<u>P1450</u>	4335	0	DEF Overpressure error at METERINGCONTROL (DEF pump pressure is too high)	ON	SCR induce			Tampering	
228	<u>P1451</u>	4335	1	DEF Underpressure error at METERINGCONTROL (DEF pump pressure is too low)	ON	SCR induce			Tampering	
229	<u>P1457</u>	4335	2	DEF pressure build up error at PRESSUREBUILDUP (DEF pump pressure is too low)	ON	SCR induce			Tampering	

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
230	<u>P202D</u>	4335	7	DEF Leakage detection at METERINGCONTROL	ON	No				
231	<u>P1452</u>	4335	12	DEF Overpressure error regardless of the state (DEF pump pressure is too high)	ON	SCR induce			Tampering	
232	<u>P1459</u>	4335	15	DEF Pressure reduction error at PRESSUREREDUCTION (Detected an insufficient pressure drop)	ON	SCR induce			Tampering	
233	<u>P1460</u>	4335	16	DEF underpressure error at AFTERRUN_PRESSURECOMPENSATION	ON	No				
234	<u>P1893</u>	4344	2	DEF backflow Line plausibility error at DETECTIONMODE (Does not detect a pressure drop)	ON	SCR induce			Tampering	
235	<u>P221D</u>	4354	5	DEF Pressure line heater circuit Open circuit Fault	ON	SCR induce			Tampering	
236	<u>P221C</u>	4354	6	DEF Pressure line heater circuit Open circuit or Short circuit to ground Fault	ON	SCR induce			Tampering	
237	<u>P221F</u>	4355	5	DEF Backflow line heater circuit Open circuit Fault	ON	SCR induce			Tampering	
238	<u>P221E</u>	4355	6	DEF Backflow line heater circuit Open circuit or Short circuit to ground Fault	ON	SCR induce			Tampering	
239	<u>P215F</u>	4356	5	DEF Suction line heater circuit Open circuit Fault	ON	SCR induce			Tampering	
240	<u>P215E</u>	4356	6	DEF Suction line heater circuit Open circuit or Short circuit to ground Fault	ON	SCR induce			Tampering	
241	<u>P20EE</u>	4364	14	SCR Efficiency Too low fault	ON	Level1 (Mild)				
242	<u>P2043</u>	4365	3	DEF Temperature Sensor Open circuit	ON	SCR induce			Tampering	
243	<u>P2046</u>	4365	4	DEF Temperature Sensor Short circuit	ON	SCR induce			Tampering	
244	<u>P1227</u>	4365	14	DEF Tank temperature plausibility fault (Insufficient temperature increment)	ON	SCR induce			Tampering	
245	<u>P208D</u>	4374	3	DEF Supply Pump Motor Signal Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
246	<u>P208C</u>	4374	4	DEF Supply Pump Motor Signal Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	
247	<u>P208A</u>	4374	5	DEF Supply Pump Motor Signal Open circuit Fault	ON	SCR induce			Tampering	
248	<u>P208B</u>	4374	7	DEF Supply Pump Motor Signal Over temperature Fault	ON	SCR induce			Dosing interrupt	
249	<u>P108A</u>	4374	8	DEF Supply Pump Motor Speed Deviation Fault	ON	SCR induce			Dosing interrupt	
250	<u>P108B</u>	4374	9	DEF Supply Pump Motor Speed Deviation Permanent Fault	ON	SCR induce			Dosing interrupt	

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
251	<u>P108C</u>	4374	12	DEF Supply Pump Motor No activation Fault	ON	SCR induce			Dosing interrupt	
252	<u>P24A3</u>	4781	15	DPF Soot mass too high status (> 120%)	Blink	Level2 (severe)				Active Switch
253	<u>P2463</u>	4781	16	DPF Soot mass high status (> 110%)	ON	Level1 (Mild)				
254	<u>P0593</u>	5067	3	PTO (Idle up) Lamp Short to Battery	ON	No				
255	<u>P0592</u>	5067	4	PTO (Idle up) Lamp Short to Ground	ON	No				
256	P0591	5067	5	PTO (Idle up) Lamp Open circuit	ON	No				
257	P055D	5099	3	Oil Pressure Warning Lamp Short to Battery	ON	No				
258	P055C	5099	4	Short circuit to ground error of oil pressure lamp	ON	No				
259	P055B	5099	5	Oil Pressure Warning Lamp Open circuit	ON	No				
260	<u>P0193</u>	5313	3	Rail pressure sensor High fault	ON	Level1 (Mild)				Active Forced
261	<u>P0192</u>	5313	4	Rail pressure sensor Low fault	ON	Level1 (Mild)				Active Forced
262	<u>P02E3</u>	5419	3	Throttle valve H-Bridge Driver Short circuit to battery	ON	No				Active Forced
263	<u>P02E2</u>	5419	4	Throttle valve H-Bridge Driver Short circuit to ground	ON	No				Active Forced
264	<u>P02E0</u>	5419	5	Throttle valve H-Bridge Driver Open Circuit Fault	ON	No				Active Forced
265	<u>P1453</u>	5435	10	DEF pressure stabilization error at DETECTIONMODE (DEF pump pressure is not stable)	ON	SCR induce			Tampering	
266	<u>P204A</u>	5435	12	DEF pressure check error at DETECTIONMODE (Detected an insufficient pressure drop)	ON	SCR induce			Tampering	
267	<u>P20A3</u>	5436	3	DEF Reverting valve output Short circuit to battery Fault	ON	SCR induce			Tampering	
268	<u>P20A2</u>	5436	4	DEF Reverting valve output Short circuit to ground Fault	ON	SCR induce			Tampering	
269	<u>P20A0</u>	5436	5	DEF Reverting valve output Open circuit Fault	ON	SCR induce			Tampering	
270	<u>P20A1</u>	5436	7	DEF Reverting valve output Over temperature Fault	ON	SCR induce			Tampering	
271	<u>P20A5</u>	5436	11	DEF Reverting valve Pressure drop plausibility fault	ON	SCR induce			Tampering	
272	<u>P1461</u>	5436	14	DEF Reverting valve is blocked (Detected an insufficient pressure drop)	ON	SCR induce			Tampering	
273	<u>P20C0</u>	5491	3	DEF Pressure line heater relay output Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
274	P20BF	5491	4	DEF Pressure line heater relay output Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
275	<u>P20BD</u>	5491	5	DEF Pressure line heater relay output Open circuit Fault	ON	SCR induce			Tampering	
276	<u>P30BD</u>	5491	7	DEF Pressure line heater relay output Over temperature Fault	ON	SCR induce			Dosing interrupt	
277	<u>P20BE</u>	5491	12	DEF Pressure line heater feedback plausibility Fault	ON	SCR induce			Dosing interrupt	
278	<u>P009B</u>	5571	22	Common rail pressure relief valve reached maximum allowed opening count	ON	No				
279	<u>P009C</u>	5571	23	Common rail pressure relief valve Forced to open status (Pressure increase)	ON	Level1 (Mild)	Used			Active Forced
280	<u>P009D</u>	5571	24	Common rail pressure relief valve Forced to open status (Pressure shock)	ON	Level1 (Mild)	Used			Active Forced
281	<u>P000F</u>	5571	25	Common rail pressure relief valve is open	ON	Level1 (Mild)	Used			Active Forced
282	P009F	5571	27	Averaged rail pressure is outside the expected tolerance range	ON	No				Active Forced
283	<u>P018F</u>	5571	28	Common rail pressure relief valve reached maximum allowed open time	ON	No				Active Forced
284	<u>P246C</u>	5629	14	DPF differential pressure too high fault	ON	Level1 (Mild)			Tampering	Active Forced
285	<u>P2465</u>	5629	15	DPF differential pressure high fault (Warning)	ON	No				
286	<u>P214F</u>	5706	5	DEF Supply module heater circuit Open circuit Fault	ON	SCR induce			Tampering	
287	P21DD	5706	6	DEF Supply module heater circuit Open circuit or Short circuit to ground Fault	ON	SCR induce			Tampering	
288	<u>P23B3</u>	5706	12	DEF Supply module heater temperature plausibility fault (Insufficient temperature increment)	ON	SCR induce			Tampering	
289	<u>P23B4</u>	5706	14	DEF Supply module heater temperature plausibility fault at cold start (Insufficient temperature increment)	ON	SCR induce			Tampering	
290	<u>P23B2</u>	5706	22	DEF Supply module heater plausibility fault (Insufficient temperature increment)	ON	SCR induce			Tampering	
291	<u>P21C4</u>	5746	3	DEF Main heater relay output Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
292	<u>P21C3</u>	5746	4	DEF Main heater relay output Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	
293	P21C2	5746	5	DEF Main heater relay output Open circuit Fault	ON	SCR induce			Tampering	
294	<u>P05ED</u>	5746	6	DEF heater line circuit Short circuit to battery Fault	ON	SCR induce			Tampering	
295	<u>P31C5</u>	5746	7	DEF Main heater relay output Over temperature Fault	ON	SCR induce			Dosing interrupt	
296	<u>P21C9</u>	5965	3	SCR system Main relay short circuit to battery	ON	SCR induce			Tampering	

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
297	<u>P21C8</u>	5965	4	SCR system Main relay short circuit to ground	ON	SCR induce			Tampering	
298	<u>P21C7</u>	5965	5	SCR system Main relay open circuit	ON	SCR induce			Tampering	
299	<u>P2634</u>	6323	3	Electric fuel feed pump Output short to battery circuit fault	ON	No				
300	<u>P2633</u>	6323	4	Electric fuel feed pump Output short to ground circuit fault	ON	No				
301	<u>P2632</u>	6323	5	Electric fuel feed pump Output open circuit fault	ON	No				
302	<u>P2635</u>	6323	13	Electric fuel feed pump performance fault	ON	No				
303	<u>U1033</u>	6385	19	Timeout Error of CAN-Receive-Frame EOI (Engine Starter Motor Relay Control)	ON	No				
304	<u>P204D</u>	6875	3	DEF Supply Pump pressure sensor High fault	ON	SCR induce			Dosing interrupt	
305	<u>P204C</u>	6875	4	DEF Supply Pump pressure sensor Low fault	ON	SCR induce			Dosing interrupt	
306	<u>P304D</u>	6875	16	DEF Supply Pump pressure sensor High plausibility fault	ON	SCR induce			Dosing interrupt	
307	<u>P304C</u>	6875	18	DEF Supply Pump pressure sensor Low plausibility fault	ON	SCR induce			Dosing interrupt	
308	<u>P3611</u>	6915	3	DPF lamp 2 (DPF Regeneration Active Lamp) Short to Battery	ON	No				
309	<u>P360F</u>	6915	4	DPF lamp 2 (DPF Regeneration Active Lamp) Short to Ground	ON	No				
310	<u>P360E</u>	6915	5	DPF lamp 2 (DPF Regeneration Active Lamp) Open circuit	ON	No				
311	<u>P1908</u>	6916	3	DPF lamp 3 (DPF regeneration switch inhibit lamp) Short to Battery	ON	No				
312	<u>P1907</u>	6916	4	DPF lamp 3 (DPF regeneration switch inhibit lamp) Short to Ground	ON	No				
313	<u>P1906</u>	6916	5	DPF lamp 3 (DPF regeneration switch inhibit lamp) Open circuit	ON	No				
314	<u>P20C4</u>	7069	3	DEF Backflow line heater relay output Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
315	<u>P20C3</u>	7069	4	DEF Backflow line heater relay output Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	
316	<u>P20C1</u>	7069	5	DEF Backflow line heater relay output Open circuit Fault	ON	SCR induce			Tampering	
317	<u>P30C1</u>	7069	7	DEF Backflow line heater relay output Over temperature Fault	ON	SCR induce			Dosing interrupt	
318	P20C2	7069	12	DEF Backflow line heater feedback plausibility Fault	ON	SCR induce			Dosing interrupt	
319	P23B5	7107	12	DEF Supply module temperature plausibility fault (Insufficient temperature increment)	ON	SCR induce			Tampering	
320	P23B6	7107	14	DEF Supply module temperature plausibility fault at cold start (Insufficient temperature increment)	ON	SCR induce			Tampering	

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
321	P20BC	7416	3	DEF Supply module heater relay output Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
322	<u>P20BB</u>	7416	4	DEF Supply module heater relay output Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	
323	<u>P20B9</u>	7416	5	DEF Supply module heater relay output Open circuit Fault	ON	SCR induce			Tampering	
324	<u>P30B9</u>	7416	7	DEF Supply module heater relay output Over temperature Fault	ON	SCR induce			Dosing interrupt	
325	<u>P20BA</u>	7416	12	DEF Supply module heater feedback plausibility Fault	ON	SCR induce			Dosing interrupt	
326	<u>P06F0</u>	7538	12	DEF Supply module temperature duty cycle in failure range	ON	SCR induce			Dosing interrupt	
327	<u>P06F1</u>	7538	13	Diagnostic Fault Check for DEF supply module duty cycle in the invalid range	ON	SCR induce			Dosing interrupt	
328	P20AC	7538	22	DEF Supply module heater temperature duty cycle in failure range	ON	SCR induce			Dosing interrupt	
329	P20AD	7538	23	DEF Supply module heater temperature duty cycle in invalid range	ON	SCR induce			Dosing interrupt	
330	P20B0	7538	24	DEF Supply module temperature measurement non-availability fault	ON	SCR induce			Dosing interrupt	
331	P20FF	7538	25	DEF Supply module time period outside specified range	ON	SCR induce			Dosing interrupt	
332	<u>P056D</u>	7538	26	DEF Supply module PWM signal fault	ON	SCR induce			Dosing interrupt	
333	<u>P20C8</u>	7540	3	DEF Suction line heater relay output Short circuit to battery Fault	ON	SCR induce			Dosing interrupt	
334	<u>P20C7</u>	7540	4	DEF Suction line heater relay output Short circuit to ground Fault	ON	SCR induce			Dosing interrupt	
335	<u>P20C5</u>	7540	5	DEF Suction line heater relay output Open circuit Fault	ON	SCR induce			Tampering	
336	<u>P30C5</u>	7540	7	DEF Suction line heater relay output Over temperature Fault	ON	SCR induce			Dosing interrupt	
337	<u>P20C6</u>	7540	12	DEF Suction line heater feedback plausibility Fault	ON	SCR induce			Dosing interrupt	
338	P0617	7748	3	Starter relay power stage output short circuit to battery	ON	No				
339	<u>P0616</u>	7748	4	Starter relay power stage output short circuit to ground	ON	No				
340	<u>P0615</u>	7748	5	Starter relay power stage output open circuit	ON	No				
341	<u>P213E</u>	8614	12	Injection cut off demand (ICO) for shut off coordinator	Blink	Level2 (severe)		Used		
342	<u>P062F</u>	55296	12	ECU EEPROM Read Error	ON	No				
343	<u>P0630</u>	55552	12	ECU EEPROM Write Error	ON	No				

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
344	<u>U01B7</u>	57344	19	Timeout Error of CAN-Receive-Frame CM1 (Status of regeneration initiate and inhibit switches)	ON	No				mmore
345	<u>U01B9</u>	61441	19	Timeout Error of CAN-Receive-Frame EBC1 (Engine shut off request)	ON	No				
346	<u>U029D</u>	61454	19	Timeout Error of CAN-Receive-Frame AT1IG1 (NOx Upstream Concentration)	ON	SCR induce			Tampering	
347	<u>U029E</u>	61455	19	Timeout Error of CAN-Receive-Frame AT101 (NOx Downstream Concentration)	ON	SCR induce			Tampering	
348	<u>U02A2</u>	64923	19	Timeout Error of CAN-Receive-Frame A1DEFI (DEF Tank)	ON	SCR induce			Tampering	
349	<u>U0619</u>	65110	19	Timeout Error of CAN-Receive-Frame AT1T1I (DEF Level, Temperature over CAN)	ON	SCR induce			Tampering	
350	<u>U1001</u>	65164	19	Timeout Error of CAN-Receive-Frame AAI (Hydraulic Oil Temperature)	ON	No				
351	<u>U1031</u>	65241	19	Timeout Error of CAN-Receive-Frame AUXIO1 (status of vehicle cut off [Safety bar])	ON	No				
352	<u>U1032</u>	65265	19	Timeout Error of CAN-Receive-Frame RxCCVS (PTO / Idle up)	ON	No				
353	<u>P0218</u>	65272	19	Timeout Error of CAN-Receive-Frame TRF1 (Transmission oil temperature)	ON	No				
354	<u>U0632</u>	65320	19	Timeout Error of CAN-Receive-Frame FanCtl (FAN Control)	ON	No				
355	<u>U0608</u>	65400	19	Timeout Error of CAN-Receive-Frame RxSMVCU (Pedal & Engine speed demand from VCU)	ON	Level1 (Mild)				
356	<u>U013C</u>	65400	22	Message Check Sum Error of CAN Receive Frame SMVCU (Pedal & Engine speed demand from VCU)	ON	Level1 (Mild)				
357	<u>U043D</u>	65400	23	Message Counter Error of CAN Receive Frame SMVCU (Pedal & Engine speed demand from VCU)	ON	Level1 (Mild)				
358	<u>U010F</u>	65401	19	Timeout Error of CAN-Receive-Frame DPM1 (Air Conditioning Switch Status / Oil life reset)	ON	No				
359	<u>U01B8</u>	65402	19	Timeout Error of CAN-Receive-Frame DPM9 (Multiple torque Map select switch)	ON	No				
360	<u>P2383</u>	104332	9	NOx sensor Mounting Error (Upstream NOx sensor)	ON	SCR induce			Tampering	
361	<u>P2384</u>	104385	9	NOx sensor Mounting Error (Downstream NOx sensor)	ON	SCR induce			Tampering	
362	<u>P160B</u>	520601	12	CY327(Power control chipset) SPI (Serial Peripheral Interface Bus) Communication Error	ON	No				
363	<u>P060B</u>	520618	12	ECU ADC(Analog to Digital Convertor) NTP(Null Load Test Pulse) Monitoring fault	ON	No				

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
364	<u>P160F</u>	520641	12	ECU ROM Memory multiple error	ON	No				
365	<u>P1610</u>	520642	12	ECU MM(Monitoring Module) Synchronization Loss fault during Shut-off path test	ON	No				
366	<u>P101A</u>	520643	12	MoF(Monitoring of Function) Over Run error	ON	No				
367	<u>P160C</u>	520696	12	ECU ADC(Analog to Digital Convertor) Test error	ON	No				
368	<u>P160D</u>	520697	12	ECU ADC(Analog to Digital Convertor) Voltage ratio error	ON	No				
369	P060C	520698	12	ECU query response-communication error	Blink	Level2 (severe)		Used		
370	<u>P160E</u>	520699	12	ECU SPI (Serial Peripheral Interface Bus) communication error	ON	No				
371	<u>P1611</u>	520700	12	ECU Shut – off path test error	Blink	Level2 (severe)				
372	<u>P1612</u>	520701	12	ECU Wrong set response time error during shut off path test	ON	No				
373	<u>P1613</u>	520702	12	ECU Too many SPI (Serial Peripheral Interface Bus) errors during shut off path test	ON	No				
374	<u>P1615</u>	520703	12	ECU WDA working error during Shut-off path test	ON	No				
375	<u>P1616</u>	520704	12	ECU OS Timeout error during Shut-off path test	ON	No				
376	<u>P1617</u>	520705	12	ECU Positive test failure error during Shut-off path test	ON	No				
377	<u>P1618</u>	520706	12	ECU Shut-off path test timeout fault	ON	No				
378	<u>P1619</u>	520707	3	ECU Overvoltage error during Shut-off path test	ON	No				
379	<u>P1614</u>	520707	4	ECU Undervoltage error during Shut-off path test	ON	No				
380	<u>P12E5</u>	520723	12	NCD inducement Fault Level1 (Group1 - EGR Block)	OFF	No				
381	<u>P12E6</u>	520724	12	NCD inducement Fault Level2 (Group1 - EGR Block)	OFF	No				
382	<u>P12E7</u>	520725	12	NCD inducement Fault Level3 Final inducement (Group1 - EGR Block)	OFF	No				
383	<u>P12E8</u>	520726	12	NCD inducement Fault Warning (Group1 - EGR Block)	OFF	No				
384	<u>P12E9</u>	520727	12	NCD inducement Fault Level1 (Group2 – Dosing Interrupt)	OFF	No				
385	P12EA	520728	12	NCD inducement Fault Level2 (Group2 – Dosing Interrupt)	OFF	No				
386	P12EB	520729	12	NCD inducement Fault Level3 Final inducement (Group2 – Dosing Interrupt)	OFF	No				_
387	P12EC	520730	12	NCD inducement Fault Warning (Group2 – Dosing Interrupt)	OFF	No				

No.	Code	SPN	FMI	Description	CE lamp	Torque de-rate	Speed limit	Eng. stop	NCD/PCD induce	DPF regen inhibit
388	<u>P12F2</u>	520736	12	NCD inducement Fault Level1 (Group4 – DEF Quality)	OFF	No				
389	<u>P12F3</u>	520737	12	NCD inducement Fault Level2 (Group4 – DEF Quality)	OFF	No				
390	<u>P12F4</u>	520738	12	NCD inducement Fault Level3 Final inducement (Group4 – DEF Quality)	OFF	No				
391	<u>P12F5</u>	520739	12	NCD inducement Fault Warning (Group4 – DEF Quality)	OFF	No				
392	<u>P12F6</u>	520740	12	NCD inducement Fault Level1 (Group5 – Tampering)	OFF	No				
393	<u>P12F7</u>	520741	12	NCD inducement Fault Level2 (Group5 – Tampering)	OFF	No				
394	P12F8	520742	12	NCD inducement Fault Level3 Final inducement (Group5 – Tampering)	OFF	No				
395	<u>P12F9</u>	520743	12	NCD inducement Fault Warning (Group5 – Tampering)	OFF	No				
396	<u>P1303</u>	520790	12	NCD inducement Repeat offense Level1	OFF	No				
397	<u>P1304</u>	520791	12	NCD inducement Repeat offense Level2	OFF	No				
398	<u>P1305</u>	520792	12	NCD inducement Repeat offense Level3 Final inducement	OFF	No				
399	<u>P1013</u>	520797	12	MoF(Monitoring of Function) Engine speed error	ON	No				