

	SID, PID FMI	SPN FMI	Description	QSB	QSC	QSL9	QSM11	QSX15	QSK19	QSK23	QST30	HHP-level		
												QSK45	QSK60	QSK78
111 Red	S254 12	629 12	Engine control Unit-critical internal error	X	X	X	X	X	X	X	X	3	3	3
112 Red	S020 7	635 7	The injection syncer does not respond to the commands of the control unit						X	X		2	2	2
113 Yellow	S020 3	635 3	Injection timing chain-short circuit						X	X	X	2	2	2
114 Yellow	S020 4	635 4	Injection synchronisation chain-chain break								X			
115 Red	P190 2	190 2	Circuit of the speed sensor and the position of the crankshaft-no two signals from the sensor	X	X	X	X	X	X	X	X	2	2	2
116 Red	P156 3	156 3	Circuit of the pressure sensor in the highway control the angle of fuel injection-short circuit		X	X			X	X		2	2	2
117 Red	P156 4	156 4	Circuit of the pressure sensor in the line of control of the fuel injection lead angle-chain breakage		X	X			X	X		2	2	2
118 Yellow	P135 3	135 3	Circuit of the fuel pressure sensor in the fuel pump-short circuit		X	X			X	X		3	3	3

119 Yellow	P135 4	135 4	Circuit of the fuel pressure sensor in the fuel pump-breakage of a chain		X	X			X	X		3	3	3
121 Yellow	P190 10	190 10	Circuit of the speed sensor and the position of the crankshaft-the absence of one of the two sensor signals		X	X	X	X	X	X	X	2	2	2
122 Yellow	P102 3	102 3	Pressure sensor in Inlet manifold № 1-Short circuit	X	X	X	X	X	X	X	X	2	2	2
123 Yellow	P102 4	102 4	Pressure sensor in the inlet manifold № 1-chain breakage	X	X	X	X	X	X	X	X	2	2	2
124* Yellow		102 16	High pressure in inlet manifold (left row of cylinders)								X	3	3	3
125* None		102 18	Low pressure in inlet manifold (left row of cylinders)								X	3	3	3
126* Yellow		1129 16	High pressure in inlet manifold (right row of cylinders)								X	3	3	3
127* None		1129 18	Low pressure in inlet manifold (right row of cylinders)								X	3	3	3
128* None		1129 3	Pressure sensor in Inlet manifold (right row of cylinders)-Short circuit								X	3	3	3
129* None		1129 4	Pressure sensor in Inlet manifold (right row of cylinders)-chain breakage								X	3	3	3

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143 Yellow	P100 1	100 18	Low oil pressure in the engine	X	X	X	X	X			X			
143 White	P100 1	100 1	Low oil pressure in the engine						X	X		1	1	1
144 Yellow	P110 3	110 3	Coolant temperature sensor circuit-short circuit	X	X	X	X	X	X	X	X	2	2	2
145 Yellow	P110 4	110 4	Coolant temperature sensor chain-chain break	X	X	X	X	X	X	X	X	2	2	2
146 Yellow	P110 0	110 16	High coolant temperature	X	X	X								
147 Red	P091 8	091 8	Accelerator pedal position sensor circuit-low frequency	X	X	X	X	X	X	X	X	2	2	2
148 Red	P091 8	091 8	Accelerator pedal position sensor chain-high frequency	X	X	X	X	X	X	X	X	2	2	2
151 Red	P110 0	110 0	Dangerously high coolant temperature	X	X	X	X	X			X			
151 White	P110 0	110 0	Dangerously high coolant temperature						X	X		1	1	1
153 Yellow	P105 3	105 3	No 1 temperature sensor circuit in inlet manifold-short circuit	X	X	X	X	X	X	X	X	2	2	2
154 Yellow	P105 4	105 4	No 1 temperature sensor chain in inlet manifold-chain breakage	X	X	X	X	X	X	X	X	2	2	2
155 Red	P105 0	105 0	Dangerously high air temperature in the inlet manifold	X	X	X	X	X			X			

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165* White		1133 0	High air temperature in inlet manifold (rear sensor, right row of cylinders)									1	1	1
166 Yellow	S024 3	733 3	No sensor chain 1 position of the fuel pump reiki-Short Circuit								X			
172 Red	S023 6	638 6	No sensor chain 1 position of the fuel pump reiki-circuit to the mass								X			
173 Yellow	S023 7	638 7	Mechanical jamming of the fuel pump Reiki								X			
184 Yellow	S233 2	609 2	Misuse of electronic engine control unit	X	X	X					X			
185 Yellow	S231 2	639 2	Failed to communicate with engine control unit								X			
187 Yellow	S232 4	620 4	Low voltage on the No Line 1 power supply sensors of the engine control unit				X	X						
211 None	S216 11	1484 31	Fault codes detected in other control units were found. Verification is required.				X	X						
211* None		613 14	Fault codes detected in other control units were found. Verification is required.								X	3	3	3

212 Yellow	P175 3	175 3	Engine oil temperature sensor circuit-short circuit				X	X			X			
212* Yellow	P175 3	175 3	Engine oil temperature sensor circuit-short circuit									2	2	2
213 Yellow	P175 4	175 4	Circuit of the oil temperature sensor in the engine-chain breakage				X	X			X			
213* Yellow		175 4	Circuit of the oil temperature sensor in the engine-chain breakage									2	2	2
214 Red	P175 0	175 0	Dangerous Vysokaâ Temperature engine oils				X	X						
214* White		175 0	Dangerous Vysokaâ Temperature engine oils									1	1	1
219 Maint.	P17 1	1380 17	Low oil level in the oil tank of the Centinel system				X	X						
219 White	P17 1	1380 1	Low oil level in the oil tank of the Centinel system						X	X		2	2	2
221 Yellow	P108 3	108 3	Atmospheric pressure sensor circuit-short circuit		X	X	X	X	X	X	X	2	2	2
222 Yellow	P108 4	108 4	Atmospheric pressure sensor circuit-chain breakage		X	X	X	X	X	X	X	2	2	2
223 Yellow	S085 4	1265 4	Oil supply valve chain for centinel system combustion- chain breakage				X	X	X	X		2	2	2

225 Yellow	S086 4	1266 4	Centinel system Oil adding valve chain- chain break						X	X		2	2	2
227 Yellow	S232 3	620 3	High voltage on the № Line 2 power supply sensors of the engine control unit				X	X						
231 Yellow	P109 3	109 3	Cooling liquid pressure sensor circuit-short circuit						X	X	X	2	2	2
232 Yellow	P109 4	109 4	Cooling liquid pressure sensor chain-chain breakage						X	X	X	2	2	2
233 Yellow	P109 1	109 18	Low coolant pressure								X			
233 White	P109 1	109 1	Low coolant pressure						X	X		1	1	1
234 Red	P190 0	190 0	Dangerous high engine speed	X	X	X	X	X	X	X	X	3	3	3
235 Red	P111 1	111 1	Dangerous low coolant level	X	X	X	X	X			X			
235 White	P111 1	111 1	Dangerous low coolant level						X	X		1	1	1
237 Yellow	S030 2	644 2	Multiengine synchronization- Incorrect external speed data				X		X	X		2	2	2
241 Yellow	P084 2	084 2	Speed sensor circuit- incorrect data	X	X	X	X	X						
242 Yellow	P084 10	084 10	Speed sensor- evidence tampering detected	X	X	X	X	X						



243 Yellow	P121 4	513 4	Motor Brake № 1 Drive-Chain break	X	X	X								
245 Yellow	S033 4	647 4	Fan drive coupling chain-chain breakage	X	X	X	X	X						
252 Yellow	P098 2	098 2	№ sensor chain 1 oil level in the engine- incorrect data									2	2	2
253 White	P098 1	098 1	№ Sensor 1 Oil level in the engine- dangerous low oil level									1	1	1
254 Red	S017 4	632 4	Fuel cut-off valve chain-chain breakage				X	X			X			
254 None	S017 4	632 4	Fuel cut-off valve chain-chain breakage						X	X		2	2	2
255 Yellow	S017 3	632 3	Fuel cut-off valve circuit-short circuit				X	X						
259 Red	S017 7	632 7	Fuel cut-off valve- jamming in open position					X	X	X	X	2	2	2
261 Yellow	P174 0	174 16	High fuel temperature	X										
263 Yellow	P174 3	174 3	Fuel temperature sensor circuit-short circuit		X	X			X	X		2	2	2
264 Yellow	P174 11	174 11	Fuel temperature sensor circuit- incorrect data	X										
265 Yellow	P174 4	174 4	Fuel temperature sensor circuit-chain breakage		X	X			X	X		2	2	2
268 Yellow	P094 2	94 2	Fuel pressure sensor circuit-incorrect data		X	X								

271 Yellow	S126 4	1347 4	№ 1 High-pressure gas control valve chain-chain breakage		X	X								
272 Yellow	S126 3	1347 3	№ 1 high-pressure monitoring valve chain-short circuit		X	X								
273 Yellow	S127 4	1348 4	№ 2 high-pressure control valve chain Fuel pressure-chain breakage		X	X								
274 Yellow	S127 3	1348 3	№ 2 high-pressure monitoring valve chain-short circuit		X	X								
275 Yellow	S126 7	1347 7	Injection VALVE № 1 fuel pump- mechanical seizing		X	X								
276 Yellow	S018 3	633 3	Fuel dosage valve Chain/Uov regulation-Short circuit		X	X								
277 Yellow	S018 7	633 7	Fuel dosing valve/UOV regulation- Mechanical seizing		X	X								
278 Yellow	P073 11	1075 11	Booster pump control circuit-short circuit/chain breakage	X	X	X								
279 Yellow	S018 4	633 4	Fuel dosage valve Chain/uov regulation-chain breakage		X	X								
281 Yellow	S126 7	1347 7	Control Valve № 1 High-pressure fuel- mechanical seizing		X	X								

282 Yellow	S127 7	1348 7	Control Valve № 2 High-pressure fuel- mechanical seizing		X	X								
283 Yellow	S221 3	1043 3	Power supply chain of engine pistons- short circuit	X	X	X								
284 Yellow	S221 4	1043 4	Power supply circuit of the engine pistons/position- chain break	X	X	X		X						
285 Yellow	S231 9	639 9	No response from the device transmitted on the bus J1939	X	X	X	X	X						
286 Yellow	S231 13	639 13	Incorrect transmission of J1939 data from the device to the bus	X	X	X	X	X						
287 Red	P091 2	91 19	Incorrect data transmission on the J1939 bus from the pedal position sensor	X	X	X	X	X						
288 Red	P029 2	974 19	Incorrect data transmission on the J1939 bus from the position sensor of the remote pedal	X	X	X	X	X						
292 White	P223 14	1083 14	Additional temperature sensor № 1-Dangerous high readings						X	X		3	3	3
293 Yellow	S441 3	441 3	Additional temperature sensor № 1-Short circuit											
293 Yellow	S223 3	1083 3	Additional temperature sensor № 1-Short circuit						X	X		3	3	3

293 Yellow	S154 3	1083 3	Additional temperature sensor № 1-Short circuit				X	X						
294 Yellow	S441 4	441 4	Additional temperature sensor № 1-chain break											
294 Yellow	P223 4	1083 4	Additional temperature sensor № 1-chain break						X	X		3	3	3
294 Yellow	S154 4	1083 4	Additional temperature sensor № 1-chain break				X	X						
295 Yellow	P108 2	108 2	Atmospheric pressure sensor circuit-incorrect data				X	X						
296 Red	P223 14	1837 14	Additional pressure sensor № 2- Dangerous high readings	X	X	X								
296 White	P223 14	1084 14	Additional pressure sensor № 2- Dangerous high readings						X	X		3	3	3
297 Yellow	P223 3	1387 3	Additional pressure sensor № 2-Short circuit	X	X	X								
297 Yellow	P223 3	1084 3	Additional pressure sensor № 2-Short circuit				X	X	X	X		3	3	3
298 Yellow	P223 4	1387 4	Additional pressure sensor № 2-chain break	X	X	X								
298 Yellow	P223 4	1084 4	Additional pressure sensor № 2-chain break				X	X	X	X		3	3	3

299 None	S117 14	1384 31	Force Stop Engine						X	X		3	3	3
299 Yellow	S117 11	1384 31	Force Stop Engine				X	X						
311 Yellow	S001 6	651 6	Circuit of the control valve of the nozzle № 1-a circuit on a weight				X	X						
312 Yellow	S005 6	655 6	Circuit of the control valve of the nozzle № 5-circuit on mass				X	X						
313 Yellow	S003 6	653 6	Circuit of the control valve of the nozzle № 3-a circuit on a weight				X	X						
314 Yellow	S006 6	656 6	№ Nozzle Control Valve Chain 6-circuit to Mass				X	X						
315 Yellow	S002 6	652 6	№ Nozzle Control Valve CHAIN 2-circuit to Mass				X	X						
316 Yellow	S078 3	931 3	Circuit Actuator Toplivopodajushhego Pump-Short circuit						X	X		3	3	3
318 Yellow	S078 7	931 7	Actuator Toplivopodajushhego pump-mechanical seizing						X	X		2	2	2
319 Maint.	P251 2	251 2	Clock electronic engine control unit- power loss	X	X	X	X	X						
321 Yellow	S004 6	654 6	Circuit of the control valve of the nozzle № 4-circuit to the mass				X							

322 Yellow	S001 5	651 5	Circuit of the control valve of the nozzle № 1-breakage of a chain				X							
323 Yellow	S005 5	655 5	Circuit of the control valve of the nozzle № 5-breakage of a chain				X							
324 Yellow	S003 5	653 5	Circuit of the control valve of the nozzle № 3-breakage of a chain				X							
325 Yellow	S006 5	656 5	№ Nozzle Control Valve chain 6-chain breakage				X							
328 Yellow	S152 7	1348 7	Injection VALVE № 2 pump-mechanical seizing		X	X								
329 Yellow	S233 14	1077 14	Disruption of fuel system-fuel flow		X	X								
331 Yellow	S002 5	652 5	№ Nozzle Control Valve CHAIN 2-chain breakage				X							
332 Yellow	S004 5	654 5	Circuit of the control valve of the nozzle № 4-breakage of a chain				X							
341 Yellow	S253 2	630 2	Electronic engine control unit-data loss				X	X						
342 Red	S253 13	630 13	Electronic engine control Unit-Calibration error								X			
343 Yellow	S254 12	629 12	Electronic engine control Unit-Internal device error				X	X	X	X	X	4	4	4

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368 Yellow	S254 8	1078 8	Pump control Unit- Injection Angle selection Error	X										
369 Yellow	P190 2	1078 2	Pump Control Unit- Sync error	X										
372 Yellow	S233 11	1077 11	Pump control Unit- failure to identify idle stroke	X										
373 Red	S233 3	1077 3	Pump control Unit- error of control valve termination fuel	X										
374 Yellow	S233 12	1077 12	Pump control unit- Self-diagnosis error	X										
375 Yellow	S254 2	629 2	Pump Control Unit- Calibration error	X										
376 Yellow	S233 13	1077 13	Pump control unit- mismatch fuel or engine speed	X										
377 Yellow	S233 7	1077 7	Pump control Unit- Freeze relay	X										
378 Yellow	S018 5	633 5	Chain Actuator Fuel № 1-chain breakage					X						
379 Yellow	S018 6	633 6	Chain Actuator Fuel № 1-circuit to Mass					X						
381 Yellow	S237 11	626 11	Relay № 1 Air heater in inlet manifold- incorrect data	X	X	X								
382 Yellow	S237 11	626 11	Relay № 2 air heater in inlet manifold- incorrect data	X	X	X								
384 Yellow	S237 11	626 11	Installation of air injection-a failure in the control circuit						X	X		3	3	3



385 Yellow	S232 11	620 3	Consumer sensor power supply circuit- short circuit	X	X	X								
386 Yellow	S232 3	1079 3	Circuit № 1 Power sensor engine-short circuit	X	X	X	X	X						
387 Yellow	S221 3	1043 3	Accelerator pedal position Sensor power supply circuit- short circuit	X	X	X	X	X						
389 Yellow	S033 11	647 11	Fan Clutch chain failure	X	X	X								
391 Yellow	S017 11	632 11	Failure in the power supply circuit of the shutdown valve fuel	X	X	X								
391 Yellow	S017 11	632 11	Failure in the power supply circuit of the shutdown valve fuel	X										
394 Yellow	S020 5	635 5	Chain actuator angle of injection № 1- chain break					X						
395 Yellow	S020 6	635 6	Chain actuator angle of injection № 1- circuit to Mass					X						
396 Yellow	S083 5	1244 5	Chain Actuator Fuel № 2-chain breakage					X						
397 Yellow	S083 6	1244 6	Chain Actuator Fuel № 2-circuit on the mass					X						
398 Yellow	S084 5	1245 5	Chain actuator angle of injection № 2- chain break					X						
399 Yellow	S084 6	1245 6	№ 2-Circuit actuator angle Chain					X						

414* Yellow	S250 9	608 9	Communication Error j1587								X			
415 Red	P100 1	100 1	Dangerous low oil pressure in the engine	X	X	X	X	X			X			
415 Level1	P100 1	100 1	Dangerous low oil pressure in the engine						X	X		1	1	1
418 WIF/Maint.	P097 0	097 15	High water level in fuel filter- maintenance required	X	X	X	X	X			X			
419 Yellow		1319 2	Inlet pressure- imbalance								X			
422 Yellow	P111 2	111 2	Coolant level sensor chain-incorrect data	X	X	X	X	X	X	X	X	2	2	2
423 Yellow	P156 2	156 2	Control pressure or solenoid stick in Aktuatore Uov						X	X	X	2	2	2
426 None	S231 2	639 2	J1939 data Bus- inability to transfer data				X	X						
426 None	S231 2	639 2	J1939 data Bus- inability to transfer data						X	X		3	3	3
426* None		639 2	J1939 data Bus- inability to transfer data									3	3	3
427 None	S231	639 9	J1939 data Bus-not fast enough						X	X		4	4	4
428 None	P097 3	97 3	Water sensor circuit in fuel-short circuit				X	X			X			
429 Yellow	P097 4	097 4	Circuit of the presence of water in	X	X	X	X	X			X			

			the fuel-breakage of a chain											
431 Yellow	S230 2	558 2	Accelerator pedal sensor circuit- incorrect data	X	X	X	X	X			X			
431 Yellow	P091 2	91 2	Accelerator pedal sensor circuit- incorrect data						X	X		3	3	3
432 Red	S230 13	558 13	Accelerator pedal sensor Circuit- calibration error	X	X	X	X	X			X			
432 Red	P091 13	91 13	Accelerator pedal sensor Circuit- calibration error						X	X		3	3	3
433 Yellow	P102 2	102 2	Chain of air pressure sensor in inlet manifold-incorrect data	X	X	X	X	X						
434 Yellow	S251 2	627 2	Power loss on the ECU when the ignition key position is on	X	X	X	X	X						
435 Yellow	P100 2	100 2	Engine oil pressure sensor chain- incorrect data				X	X						
441 Yellow	P168 1	168 18	Low battery voltage	X	X	X	X	X			X			
441 None	P168 1	168 1	Low battery voltage						X	X		3	3	3
442 Yellow	P168 0	168 16	High battery voltage	X	X	X	X	X			X			
442 Yellow	P168 0	168 0	High battery voltage						X	X		3	3	3

443 Yellow	S221 4	1043 4	Power supply chain of accelerator pedal position-chain break	X	X	X	X	X						
444 Yellow	S232 1	620 18	Low voltage on the voltage supply line of consumer sensors	X	X	X								
446* None		N/A	GSP Connection Error							X	4	4	4	
447* None		N/A	RPC Number not supported							X	4	4	4	
448* None		N/A	RPC answer argument							X	4	4	4	
449 Yellow	P094 0	094 16	High Fuel pressure		X	X		X						
451 Yellow	P157 3	157 3	Circuit Sensor № 1 dosing fuel in the fuel line-short circuit		X	X		X						
451 Red	P157 3	157 3	Circuit Sensor № 1 dosing fuel in the fuel line-short circuit						X	X		2	2	2
452 Yellow	P157 4	157 4	№ sensor chain 1 dosing of fuel in the fuel line-breakage of the chain		X	X		X						
452 Red	P157 4	157 4	№ sensor chain 1 dosing of fuel in the fuel line-breakage of the chain						X	X		2	2	2
455 Red	S018 3	633 3	Fuel dosage valve chain-short circuit						X	X		2	2	2
466 Yellow	S032 4	1188 4	Boost pressure regulator circuit- chain breakage					X						

467 Yellow	S020 2	635 2	Chain actuator angle of injection-incorrect data						X	X		2	2	2
468 Yellow	S018 2	633 2	Chain actuator fuel- incorrect data						X	X		2	2	2
471 Maint.	P098 1	98 1	Low oil level in the engine-maintenance required									1	1	1
472 Maint.	P017 2	1380 2	Low oil level in the engine (Sensor № 2)- Maintenance required									3	3	3
473 Yellow	P017 2	1380 2	Low oil level in the engine (Sensor № 2)- Attention!									2	2	2
479* None		1318 9	Exhaust temperature imbalance by engine series								X			
482 Yellow	P094 1	094 18	Low fuel pressure- attention!					X						
483 Yellow	P129 3	1349 3	Sensor Circuit № 2 dosing of fuel in the fuel line-short circuit					X						
484 Yellow	P129 4	1349 4	Sensor Circuit № 2 dosing of fuel in Fuel line-chain breakage					X						
485 Yellow	P129 0	1349 16	Sensor № 2 dosing of fuel in the fuel line- high pressure					X						
486 Yellow	P129 1	1349 18	Sensor № 2 dosing of fuel in the fuel line- low pressure					X						
487 Yellow	S237 1	626 1	Air injection installation-empty capacity						X	X		3	3	3

488 Yellow	P105 0	105 16	High air temperature in inlet manifold	X	X	X								
489 Yellow	P191 1	191 18	Transmission output shaft (rowing shaft)- Low speed	X	X	X	X	X						
489 Yellow	P191 1	191 1	Transmission output shaft (rowing shaft)- Low speed						X	X		2	2	2
493	S018 13	1076 13	Fuel correction chain-Failed		X	X								
496 Yellow	S221 11	1043 11	Power supply circuit of the speed sensor/piston engine position-failure					X						
497 Yellow	S114 2	1377 2	The circuit of the switch of activation of Multimotor synchronization- incorrect data	X	X	X			X	X		2	2	2
514 Red	S018 7	633 7	Fuel injection control valve-mechanical seizing						X	X		2	2	2
515 Yellow	P091 3	091 3	Circuit of the accelerator pedal position frequency sensor-short circuit	X	X	X								
516 Yellow	P091 4	091 4	Circuit of the accelerator pedal position frequency sensor-chain break	X	X	X								
517 Yellow	S251 12	1076 12	Fuel metering solenoid-faulty device	X										
524 Yellow	P113 2	113 2	Adjusting slope selector Switch- incorrect data	X	X	X					X			

527 Yellow	P154 3	702 3	Programmable output Circuit № 2- short circuit	X	X	X	X	X			X			
527 Yellow	S040 3	702 3	Programmable output Circuit № 2- short circuit						X	X		2	2	2
528 Yellow	P093 2	093 2	Alternate torque curve Selector- incorrect data	X	X	X	X	X			X			
529 Yellow	S051 3	703 3	Programmable output Circuit № 3- short circuit	X	X	X	X	X	X	X	X	2	2	2
539 Yellow	S018 11	633 11	Fuel injection Control Valve-failure		X	X								
546 Yellow	P094 3	94 3	Fuel supply valve chain-short circuit						X					
547 Yellow	P094 4	94 4	Fuel supply valve chain-chain breakage						X					
551 Yellow	S230 4	558 4	Accelerator pedal sensor circuit-chain break	X	X	X	X	X			X			
551 Red	P091 4	091 4	Accelerator pedal sensor circuit-chain break						X	X		2	2	2
553 Yellow	P157 0	157 16	High pressure in the fuel line (pressure sensor № 1)					X						
553 Red	P157 0	157 16	High pressure in the fuel line (pressure sensor № 1)						X	X		2	2	2
554 Yellow	P157 2	157 2	Fuel Pressure sensor failure						X	X		2	2	2
555 Yellow	P022 0	1264 16	Breakthrough gases in the crankcase engine								X			

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632* Yellow		1329 1	Low power of the cylinder № 2 (right row of cylinders)								X			
633* Yellow		1145 45	Low power of the cylinder № 3 (right row of cylinders)									2	2	2
633* Yellow		1329 1	Low power of the cylinder № 3 (right row of cylinders)								X			
634* Yellow		1146 45	Low power of the cylinder № 4 (right row of cylinders)									2	2	2
634* Yellow		1329 1	Low power of the cylinder № 4 (right row of cylinders)								X			
635* Yellow		1147 45	Low Power cylinder № 5 (right row of cylinders)									2	2	2
635* Yellow		1329 1	Low Power cylinder № 5 (right row of cylinders)								X			
636* Yellow		1148 45	Low power of the cylinder № 6 (right row of cylinders)									2	2	2
636* Yellow		1329 1	Low power of the cylinder № 6 (right row of cylinders)								X			
637* Yellow		1151 18	Low power of the cylinder № 7 (right row of cylinders)										2	2
638* Yellow		1152 18	Low Power cylinder № 8 (right row of cylinders)										2	2
641* Red		1137 0	High temperature of exhaust gas cylinder № 1 (left row of cylinders)								X	2	2	2

642* Red		1138 0	High temperature of exhaust gas cylinder № 2 (left row of cylinders)							X	2	2	2
643* Red		1139 0	High temperature of exhaust gas cylinder № 3 (left row of cylinders)							X	2	2	2
644* Red		1140 0	High temperature of exhaust gas cylinder № 4 (left row of cylinders)							X	2	2	2
645* Red		1141 0	High temperature of exhaust gas cylinder № 5 (left row of cylinders)							X	2	2	2
646* Red		1142 0	High temperature exhaust Gas cylinder № 6 (left row of cylinders)							X	2	2	2
647* Red		1143 0	High temperature of exhaust gases Cylinder № 7 (left row of cylinders)									2	2
648* Red		1144 0	High temperature of exhaust gas cylinder № 8 (left row of cylinders)									2	2
649 None	S115 0	1378 0	Oil and oil filter need to be replaced					X	X		3	3	3
651* Red		1143 30, 45	High temperature of exhaust gas cylinder № 1 (right row of cylinders)							X	2	2	2
652* Red		1144 30, 45	High temperature of exhaust gas cylinder							X	2	2	2

			№ 2 (right row of cylinders)											
653* Red		1145 30, 45	High temperature of exhaust gas cylinder № 3 (right row of cylinders)								X	2	2	2
654* Red		1146 30, 45	High temperature of exhaust gas cylinder № 4 (right row of cylinders)								X	2	2	2
655* Red		1147 30, 45	High temperature of exhaust gas cylinder № 5 (right row of cylinders)								X	2	2	2
656* Red		1148 30, 45	High temperature exhaust Gas cylinder № 6 (right row of cylinders)								X	2	2	2
657* Red		1150 0	High temperature of exhaust gas cylinder № 7 (right row of cylinders)										2	2
658* Red		1151 0	High temperature of exhaust gas cylinder № 8 (right row of cylinders)										2	2
659* None			Fuel Filter Replacement Required								X	4	4	4
661* Yellow		1137 16	Inflated cylinder power № 1 (left row of cylinders)									2	2	2
661* Yellow		1323 0	Inflated cylinder power № 1 (left row of cylinders)								X			

[illegible]

[illegible]

[illegible]

711* None		1143 (45) 1145 (60) 16	High power in 1m cylinder (right row of cylinders)									2	2	2
711* None		1329 0	High power in 1m cylinder (right row of cylinders)							X				
712* None		1144 (45) 1146 (60) 16	High power in 2m cylinder (right row of cylinders)									2	2	2
712* None		1330 0	High power in 2m cylinder (right row of cylinders)							X				
713* None		1145 (45) 1147 (60) 16	High power in 3m cylinder (right row of cylinders)									2	2	2
713* None		1331 0	High power in 3m cylinder (right row of cylinders)							X				
714* None		1146 (45) 1148 (60) 16	High power in the 4m cylinder (right row of cylinders)									2	2	2
714* Yellow		1332 0	High power in the 4m cylinder (right row of cylinders)							X				



715* Yellow		1147 (45) 1148 (60) 16	High power in 5m cylinder (right row of cylinders)									2	2	2
715* Yellow		1333 0	High power in 5m cylinder (right row of cylinders)							X				
716* None		1148 (45) 1149 (60) 16	High power in 6m cylinder (right row of cylinders)									2	2	2
716* Yellow		1334 0	High power in 6m cylinder (right row of cylinders)							X				
717* Yellow		1150 0	High power in 7m cylinder (right row of cylinders)										2	2
718* Yellow		1151 0	High power in the 8m cylinder (right row of cylinders)										2	2
719 Yellow	P022 3	1264 3	Crankcase pressure sensor chain-short circuit						X	X	X	2	2	2
721* None		1143 (30,45) 1145 (60) 4	Loss of signal from the temperature sensor of the exhaust gas cylinder № 1 (right row of cylinders)								X	4	4	4
722* None		1144 (30,45) 1146 (60) 4	Loss of signal from the temperature sensor of the exhaust gas cylinder № 2								X	4	4	4

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			sensor of the exhaust gas cylinder № 8 (right row of cylinders)											
729 Yellow	P022 4	1264 4	Chain of pressure sensor of crankcase gases-chain breakage						X	X	X	2	2	2
747* None			Engine parameters fixation system-free memory running out								X	4	4	4
748* None			System of fixation of engine parameters- memory is over								X	3	3	3
749* None			Engine parameters Recording system at the moment of error occurrence-free memory at the same time								X	4	4	4
753 None	S064 2	723 2						X	X	X		3	3	3
754* None			Engine parameters Recording system at the moment of error occurrence-free memory is over								X	3	3	3
755 Yellow	P157 7	157 7	Incorrect amount of fuel in the nozzle in one of the first three cylinders.					X						
756* None			Oil filters need to be replaced.								X	4	4	4
757* None			Critical power loss. Loss of data in the engine control unit.								X	4	4	4

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2145*		1154 0	High temperature of exhaust gas cylinder № 9 (right row of cylinders)											2
2146*	4	1153 4	Loss of signal from the temperature sensor of the graduates gas cylinder № 9 (right row of cylinders)											4
2147*	4	1154 4	Loss of signal from the temperature sensor of the graduates gas cylinder № 9 (left row of cylinders)											4
2148*	0	1340 16	High power in 9m cylinder (left row of cylinders)											2
2149*		1341 16	High power in 9m cylinder (right row of cylinders)											2
2151*		1340 18	Low power in 9m cylinder (left row of cylinders)											2
2152*		1341 18	Low power in 9m cylinder (right row of cylinders)											2
2154* None		611 3	Oil pressure sensor chain after oil filter-short circuit.								X	3	3	3
2155* None		611 4	The chain of the oil pressure sensor after the oil filter is a breakage of the chain.								X	3	3	3

[illegible]

[illegible]

[illegible]



			intermediate cooler- chain break												
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<https://truckmanualshub.com/cummins-engine-fault-codes-list/>