													HHP-leve	
	SID, PID FMI	SPN FMI	Description	QSB	QSC	QSL9	QSM11	QSX15	QSK19	QSK23	QST30	QSK45	QSK60	QSK78
111 Red	S254 12	629 12	Engine control Unit- critical internal error	Х	Х	Х	X	Х	X	X	Х	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						Х	Х	Х	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		Х	Х			Х	Х		3	3	3

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

			Accelerator pedal											
131	P091	091	position sensor											
Red	3	3	circuit-short circuit	Χ	Χ	Х	Х	Χ	Х	Χ	Χ	2	2	2
			Accelerator pedal											
132	P091	091	position sensor											
Red	4	4	chain-chain breakage	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ	2	2	2
			Remote pedal											
			position sensor chain											
133	P029	974	Accelerator-Short											
Red	3	3	Circuit	Χ	Х	Χ	Χ	Χ			Χ			
			Sensor Circuit of the											
133	P029	29	remote accelerator											
Red	3	3	pedal-short circuit						Х	Χ		2	2	2
			Circuit of the											
			position sensor of											
			the remote											
134	P029	974	accelerator pedal-											
Red	4	4	chain breakage	Χ	Х	Х	Χ	Χ			Х			
			Circuit of the											
			position sensor of											
			the remote											
134	P029	29	accelerator pedal-											
Red	4	4	chain breakage						Х	Χ		2	2	2
			Engine oil pressure											
135	P100	100	sensor circuit-short											
Yellow	3	3	circuit	Χ	Х	Х	Χ	Χ	Χ	Χ	Х	2	2	2
			Prelube System oil											
136*		1028	pressure sensor											
None		3	circuit-short circuit								Х	3	3	3
			Prelube System oil											
137*		1028	pressure sensor											
None		4	chain-chain breakage								Х	3	3	3
			Chain of the oil											
			pressure sensor in											
141	P100	100	the engine-chain											
Yellow	4	4	breakage	Χ	Х	Х	Х	Х	Х	Х	Х	2	2	2

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143 Yellow	P100	100 18	Low oil pressure in	V	V	V	v	v			V			
Yellow	1	18	the engine	Х	Х	Х	Х	Х			Х			
143	P100	100	Low oil pressure in											
White	1	1	the engine						Х	Х		1	1	1
			Coolant temperature											
144	P110	110	sensor circuit-short											
Yellow	3	3	circuit	Х	Х	Χ	Х	Х	Х	Х	Χ	2	2	2
1.45	5446	440	Coolant temperature											
145	P110	110	sensor chain-chain	.,	.,		v		.,		.,			
Yellow	4	4	break	Х	Х	Х	Х	Х	Х	Х	Χ	2	2	2
146	P110	110	High coolant											
Yellow	0	16	temperature	Χ	Χ	Х								
			Accelerator pedal											
147	P091	091	position sensor											
Red	8	8	circuit-low frequency	Χ	Χ	Х	Х	Х	Х	Х	Χ	2	2	2
			Accelerator pedal											
148	P091	091	position sensor											
Red	8	8	chain-high frequency	Χ	Χ	Х	Х	Х	Х	Х	Х	2	2	2
151	P110	110	Dangerously high											
Red	0	0	coolant temperature	Х	Х	х	Х	Х			Х			
151	P110	110	Dangerously high						.,					
White	0	0	coolant temperature						Х	Х		1	1	1
			Nº 1 temperature											
153	P105	105	sensor circuit in inlet manifold-short											
Yellow	3	3	circuit	Х	Х	Х	Х	х	Х	Х	Х	2	2	2
fellow	3	3	Nº 1 temperature	^	^	^	^	^	^	^	۸			
			sensor chain in inlet											
154	P105	105	manifold-chain											
Yellow	4	4	breakage	Х	Х	Х	Х	Х	х	Х	Х	2	2	2
		•	Dangerously high air			,					**			_
155	P105	105	temperature in the											
Red	0	0	inlet manifold	Х	Х	Х	Х	Х			Х			

			Dangerously high air							
155	P105	105	temperature in the							
White	0	0	inlet manifold			Х	X	1	1	1
			Rear temperature							
			sensor in inlet							
156*		1131	manifold (left row)-							
Yellow		3	Short circuit					2	2	2
			Rear temperature							
			sensor in inlet							
157*		1131	manifold (left row)-							
Yellow		4	chain breakage					2	2	2
			High air temperature							
			in inlet manifold							
158*		1131	(rear sensor, left row							
White		0	of cylinders)					1	1	1
			Rear temperature							
			sensor in inlet							
159*		1132	manifold (PRAYJ							
Yellow		3	series)-Short circuit					2	2	2
			Front temperature							
			sensor in inlet							
161*		1132	manifold (right row)-							
Yellow		4	chain breakage					2	2	2
			High air temperature							
			in inlet manifold							
162*		1132	(front sensor, right							
White		0	row of cylinders)					1	1	1
			Rear temperature							
			sensor in inlet							
163*		1133	manifold (right row)-							
Yellow		3	short circuit					2	2	2
			Rear temperature							
			sensor in inlet							
164*		1133	manifold (right row)-							
Yellow		4	chain breakage					2	2	2

			High air temperature			·				Ť			
			in inlet manifold										
165*		1133	(rear sensor, right										
White		0	row of cylinders)								1	1	1
			№ sensor chain 1										
			position of the fuel										
166	S024	733	pump reiki-Short										
Yellow	3	3	Circuit							Χ			
			№ sensor chain 1										
			position of the fuel										
172	S023	638	pump reiki-circuit to										
Red	6	6	the mass							Х			
			Mechanical jamming										
173	S023	638	of the fuel pump										
Yellow	7	7	Reiki							Χ			
184	S233	609	Misuse of electronic										
Yellow	2	2	engine control unit	Х	Х	Х				Х			
Tellow			Failed to		^								
185	S231	639	communicate with										
Yellow	2	2	engine control unit							Х			
Tellow			Low voltage on the										
			Nº Line 1 power										
187	S232	620	supply sensors of the										
Yellow	3232	4	engine control unit				Х	Х					
Tellow	4	4	Fault codes detected				^	^					
			in other control units										
			were found.										
211	S216	1484	Verification is										
							Х	V					
None	11	31	required.				۸	Х					
			Fault codes detected										
			in other control units										
211*		C12	were found.										
211*		613	Verification is							V	2	,	2
None		14	required.						l	Χ	3	3	3

212	P175	175	Engine oil temperature sensor										
Yellow	3	3	circuit-short circuit			Χ	Χ			Χ			
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			Х	x			х			
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			Х	Х						
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	Х	2	2	2
222 Yellow	P108 4	108 4	Atmospheric pressure sensor circuit-chain breakage	х	Х	Х	Х	Х	Х	Х	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	S086	1266	Centinel system Oil adding valve chain-											
Yellow	4	4	chain break						Х	Х		2	2	2
227 Yellow	S232 3	620 3	High voltage on the Nº 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						Х	Х	X	2	2	2
232 Yellow	P109 4	109 4	Cooling liquid pressure sensor chain-chain breakage						Х	Х	х	2	2	2
233 Yellow	P109 1	109 18	Low coolant pressure								Х			
233 White	P109 1	109 1	Low coolant pressure						Х	Х		1	1	1
234 Red	P190 0	190 0	Dangerous high engine speed	Х	Х	Х	X	Х	Х	Х	Х	3	3	3
235 Red	P111 1	111 1	Dangerous low coolant level	Х	Х	Χ	X	Х			Х			
235 White	P111 1	111 1	Dangerous low coolant level						Х	Х		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	Х	Х	X	X	X						
242 Yellow	P084 10	084 10	Speed sensor- evidence tampering detected	X	X	Х	X	Х						

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243	P121	513	Motor Brake № 1											
Yellow	4	4	Drive-Chain break	Χ	Х	Х								
245	S033	647	Fan drive coupling											
Yellow	4	4	chain-chain breakage	Χ	Χ	Х	Х	Х						
			№ sensor chain 1 oil											
252	P098	098	level in the engine-											
Yellow	2	2	incorrect data									2	2	2
			№ Sensor 1 Oil level											
			in the engine-											
253	P098	098	dangerous low oil											
White	1	1	level									1	1	1
254	S017	632	Fuel cut-off valve											
Red	4	4	chain-chain breakage				Х	Х			Χ			
254	S017	632	Fuel cut-off valve											
None	4	4	chain-chain breakage						Х	Х		2	2	2
			_											
255	S017	632	Fuel cut-off valve											
Yellow	3	3	circuit-short circuit				Х	Х						
250	6047	600	Fuel cut-off valve-											
259 Red	S017 7	632 7	jamming in open					Х	Х	v	Х	2	2	2
Red	/		position					^	^	Х				
261	P174	174	High fuel											
Yellow	0	16	temperature	Χ										
			Fuel temperature											
263	P174	174	sensor circuit-short											
Yellow	3	3	circuit		Х	Х			Х	Х		2	2	2
254	5474	474	Fuel temperature											
264	P174	174	sensor circuit-	.,										
Yellow	11	11	incorrect data	Х										
265	P174	174	Fuel temperature sensor circuit-chain											
Yellow	4	4	breakage		Х	Х			х	Х		2	2	2
									^					
268	P094	94	Fuel pressure sensor											
Yellow	2	2	circuit-incorrect data		Χ	Х								

Ī			№ 1 High-pressure				Ī	I			
271	S126	1347	gas control valve								
Yellow	4	4	chain-chain breakage		Χ	Х					
			№ 1 high-pressure								
272	S126	1347	monitoring valve								
Yellow	3	3	chain-short circuit		Χ	Х					
			№ 2 high-pressure								
			control valve chain								
273	S127	1348	Fuel pressure-chain								
Yellow	4	4	breakage		Χ	Х					
			№ 2 high-pressure								
274	S127	1348	monitoring valve								
Yellow	3	3	chain-short circuit		Χ	Х					
			Injection VALVE № 1								
275	S126	1347	fuel pump-								
Yellow	7	7	mechanical seizing		Χ	Х					
			Fuel dosage valve								
			Chain/Uov								
276	S018	633	regulation-Short								
Yellow	3	3	circuit		Χ	Χ					
			Fuel dosing								
			valve/UOV								
277	S018	633	regulation-								
Yellow	7	7	Mechanical seizing		Х	Х					
			Booster pump								
			control circuit-short								
278	P073	1075	circuit/chain								
Yellow	11	11	breakage .	Х	Х	Х					
			Fuel dosage valve								
270	6040	622	Chain/uov								
279 Valland	S018	633	regulation-chain		v	v					
Yellow	4	4	breakage		Х	Х					
204	6436	4247	Control Valve № 1								
281	S126	1347	High-pressure fuel-		v	v					
Yellow	7	7	mechanical seizing		Χ	Х					

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

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

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299	S117	1384											
None	14	31	Force Stop Engine						Х	Х	3	3	3
299	S117	1384											
Yellow	11	31	Force Stop Engine				Х	Х					
			Circuit of the control										
			valve of the nozzle										
311	S001	651	№ 1-a circuit on a										
Yellow	6	6	weight				Х	Χ					
			Circuit of the control										
312	S005	655	valve of the nozzle										
Yellow	6	6	Nº 5-circuit on mass				Χ	Χ					
			Circuit of the control										
			valve of the nozzle										
313	S003	653	№ 3-a circuit on a										
Yellow	6	6	weight				X	Х					
			№ Nozzle Control										
314	S006	656	Valve Chain 6-circuit										
Yellow	6	6	to Mass				Х	Х					
			№ Nozzle Control										
315	S002	652	Valve CHAIN 2-circuit										
Yellow	6	6	to Mass				Х	Χ					
			Circuit Actuator										
316	S078	931	Toplivopodajushhego										
Yellow	3	3	Pump-Short circuit						Х	Х	3	3	3
			Actuator										
			Toplivopodajushhego										
318	S078	931	pump-mechanical							.,		_	
Yellow	7	7	seizing						Х	Х	2	2	2
240	D254	254	Clock electronic										
319	P251	251	engine control unit-	.,	, , , , , , , , , , , , , , , , , , ,	.,	.,	v					
Maint.	2	2	power loss	Х	Х	Х	Х	Х					
			Circuit of the control										
224	6004	C	valve of the nozzle										
321	S004	654	№ 4-circuit to the				, , , , , , , , , , , , , , , , , , ,						
Yellow	6	6	mass				Х						

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			Circuit of the control											
222	5004	654	valve of the nozzle											
322	S001	651	Nº 1-breakage of a				.,							
Yellow	5	5	chain				Х							
			Circuit of the control											
			valve of the nozzle											
323	S005	655	№ 5-breakage of a											
Yellow	5	5	chain				Х							
			Circuit of the control											
			valve of the nozzle											
324	S003	653	№ 3-breakage of a											
Yellow	5	5	chain				Χ							
			№ Nozzle Control											
325	S006	656	Valve chain 6-chain											
Yellow	5	5	breakage				Χ							
			Injection VALVE № 2											
328	S152	1348	pump-mechanical											
Yellow	7	7	seizing		Χ	Х								
220	6222	1077	Diamontian of final											
329 Vallani	S233 14	1077	Disruption of fuel		V	V								
Yellow	14	14	system-fuel flow		Х	Х								
224	5000	652	Nº Nozzle Control											
331	S002	652	Valve CHAIN 2-chain				.,							
Yellow	5	5	breakage				Х							
			Circuit of the control											
			valve of the nozzle											
332	S004	654	Nº 4-breakage of a											
Yellow	5	5	chain				Х							
341	S253	630	Electronic engine											
Yellow	2	2	control unit-data loss				Х	Х						
. 55	_		Electronic engine					,						
342	S253	630	control Unit-											
Red	13	13	Calibration error								Х			
itea	13	13	Electronic engine											
343	S254	629	control Unit-Internal											
Yellow	12	12	device error				Х	Х	х	v	Х	4	4	4
reliow	12	12	uevice error				۸	^		Х	٨	4	4	4

			Electronic engine						ĺ					ĺ
346	S253	630	Control Unit-Internal											
Yellow	12	12	program error				Χ	Χ	Χ	Χ	Χ	4	4	4
			Transmission output											
349	P191	191	shaft (rowing shaft)-											
Yellow	0	16	High speed	Χ	Χ	Х	Х	Х						
			Transmission output											
349	P191	191	shaft (rowing shaft)-											
Yellow	0	0	High speed						Х	Х		2	2	2
			Breakage of the line											
			Nº 1 power supply of											
352	S232	1079	sensors of the engine											
Yellow	4	4	control unit	Χ	Χ	Х	Х	Х						
			Toplivopodachej											
361	S251	1076	Control Valve circuit-											
Red	3	3	short circuit	Χ										
			Toplivopodachej											
362	S251	1076	Control valve chain-											
Yellow	4	4	chain breakage	Χ										
			Control valve											
363	S251	1076	Toplivopodachej-											
Yellow	7	7	mechanical seizing	Χ										
			Pump control Unit-											
364	S233	1077	CAN connection											
Yellow	9	9	error	Χ										
			Fuel pump control											
365	S233	1077	unit, power supply											
Yellow	4	4	chain-break chain	Χ										
			Pump control unit,											
366	S233	1077	power supply circuit-											
Yellow	2	2	incorrect data	Χ										
			Pump control Unit-											
			Injection angle											
367	P190	1078	correction sensor											
Yellow	11	11	error	Χ										

			Pump control Unit-									
368	S254	1078	Injection Angle									
Yellow	8	8	selection Error	Χ								
369	P190	1078	Pump Control Unit-									
Yellow	2	2	Sync error	Χ								
			Pump control Unit-									
372	S233	1077	failure to identify idle									
Yellow	11	11	stroke	Χ								
			Pump control Unit-									
373	S233	1077	error of control valve									
Red	3	3	termination fuel	Χ								
374	S233	1077	Pump control unit-									
Yellow	12	1077	Self-diagnosis error	Х								
Tellow	12	12	Self-diagnosis entoi									
375	S254	629	Pump Control Unit-									
Yellow	2	2	Calibration error	Χ								
			Pump control unit-									
376	S233	1077	mismatch fuel or									
Yellow	13	13	engine speed	Χ								
377	S233	1077	Dumm control Unit									
Yellow	7	7	Pump control Unit-	Х								
rellow		/	Freeze relay	^								
378	S018	633	Chain Actuator Fuel									
Yellow	5	5	№ 1-chain breakage				Х					
270	5040	622										
379	S018	633	Chain Actuator Fuel				v					
Yellow	6	6	Nº 1-circuit to Mass				Х					
204		60.6	Relay № 1 Air heater									
381	S237	626	in inlet manifold-	.,	.,	.,						
Yellow	11	11	incorrect data	Χ	Х	Х						
			Relay № 2 air heater									
382	S237	626	in inlet manifold-	.,		.,						
Yellow	11	11	incorrect data	Х	Х	Х						
	l		Installation of air									
384	S237	626	injection-a failure in									
Yellow	11	11	the control circuit					Χ	Х	3	3	3

			Consumer sensor								
385	S232	620	power supply circuit-								
Yellow	11	3	short circuit	Х	Х	Х					
206	6222	4070	Circuit № 1 Power								
386	S232	1079	sensor engine-short	V	v	, , , , , , , , , , , , , , , , , , ,	V	V			
Yellow	3	3	circuit	Х	Х	Х	Х	Х			
			Accelerator pedal position Sensor								
387	S221	1043	position sensor power supply circuit-								
Yellow	3	3	short circuit	Х	Х	Х	х	x			
	†										
389	S033	647	Fan Clutch chain								
Yellow	11	11	failure	Х	Х	Χ					
			Failure in the power								
391	S017	632	supply circuit of the								
Yellow	11	11	shutdown valve fuel	Х	Х	Х					
			Failure in the power								
391	S017	632	supply circuit of the	v							
Yellow	11	11	shutdown valve fuel	Х							
394	S020	635	Chain actuator angle of injection № 1-								
Yellow	5	5	chain break					x			
TCHOW	+ -		Chain actuator angle								
395	S020	635	of injection № 1-								
Yellow	6	6	circuit to Mass					Х			
396	S083	1244 5	Chain Actuator Fuel					V			
Yellow	5	5	№ 2-chain breakage Chain Actuator Fuel					Х			
397	S083	1244	Nº 2-circuit on the								
Yellow	6	6	mass					x			
TEHOW	-	<u> </u>	Chain actuator angle					^			
398	S084	1245	of injection № 2-								
Yellow	5	5	chain break					Х			
	5004										
399 Yellow	S084 6	1245 6	№ 2-Circuit actuator					Х			
reliow	O	O	angle Chain					^			

414*	S250	608	Communication											
Yellow	9	9	Error j1587								Х			
415 Red	P100 1	100 1	Dangerous low oil pressure in the engine	х	Х	Х	Х	х			Х			
415 Level1	P100 1	100	Dangerous low oil pressure in the engine						Х	Х		1	1	1
418 WIF/Maint.	P097 0	097 15	High water level in fuel filter- maintenance required	Х	X	X	X	X			X			
419 Yellow		1319 2	Inlet pressure- imbalance								Х			
422 Yellow	P111 2	111 2	Coolant level sensor chain-incorrect data	Х	Х	Х	Х	Х	Х	Х	Х	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	х						
426 None	S231 2	639 2	J1939 data Bus- inability to transfer data						Х	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						Х	Х		4	4	4
428 None	P097 3	97 3	Water sensor circuit in fuel-short circuit				Х	Х			Х			
429 Yellow	P097 4	097 4	Circuit of the presence of water in	Х	Х	Х	X	Х			Х			

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

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

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

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488	P105	105	High air temperature											
Yellow	0	16	in inlet manifold	Χ	Χ	Х								
			Transmission output											
489	P191	191	shaft (rowing shaft)-											
Yellow	1	18	Low speed	Χ	Χ	Х	Х	Х						
			Transmission output											
489	P191	191	shaft (rowing shaft)-											
Yellow	1	1	Low speed						Х	Х		2	2	2
	6040	4076												
402	S018	1076	Fuel correction			v								
493	13	13	chain-Failed		Х	Х								
			Power supply circuit											
40.6	6224	1012	of the speed											
496	S221	1043	sensor/piston engine					.,						
Yellow	11	11	position-failure					Х						
			The circuit of the											
			switch of activation											
			of Multimotor											
497	S114	1377	synchronization-	.,	.,	.,			.,	.,			•	
Yellow	2	2	incorrect data	Χ	Х	Х			Х	Х		2	2	2
			Fuel injection control											
514	S018	633	valve-mechanical										_	_
Red	7	7	seizing						Х	Х		2	2	2
			Circuit of the											
			accelerator pedal											
515	P091	091	position frequency											
Yellow	3	3	sensor-short circuit	Χ	Х	Χ								
			Circuit of the											
			accelerator pedal											
516	P091	091	position frequency											
Yellow	4	4	sensor-chain break	Χ	Χ	Х								
			Fuel metering											
517	S251	1076	solenoid-faulty											
Yellow	12	12	device	Χ										
			Adjusting slope											
524	P113	113	selector Switch-											
Yellow	2	2	incorrect data	Χ	Χ	X					Χ			

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

555 White	P022 0	1264 0	Breakthrough gases in the crankcase engine						X	X		1	1	1
581 Yellow	P015 3	1381 3	Fuel supply pressure sensor circuit-short circuit				х	Х						
582 Yellow	P015 4	1381 4	Fuel supply pressure sensor chain-chain breakage				Х	X						
583 Yellow	P015 1	1381 18	Low pressure in the fuel supply line				X	Х						
595 Yellow	P103 0	103 16	High Speed turbocharger shaft					Х						
596 Yellow	P167 0	167 16	High level of charge from the generator				Х	Х						
597 Yellow	P167 1	167 18	Low charge level with generator				Х	Х						
598 Red	P167 1	167 1	Dangerous low charge level with generator				Х	Х						
599 Red	S025 14	640 14	Engine shutdown via programmable output	Х	X	Х								
611 None	S151 11	1383 31	Engine stop- overheating	Х	Х	Х	Х	Х						
611 None	S151 14	1383 31	Engine stop- overheating						Х	Х	Х	3	3	3
612* Red		99 1	High resistance in the oil filter								Х	2	2	2
616* None		1173 16	High temperature at the inlet of the turbocharger (right row of cylinders)									3	3	3

1 1	ĺ	High temperature at	1	Ī		ĺ	1	ĺ	Ī		
		the inlet of the									
617*	1172	turbocharger (left									
None	0	row of cylinders)						Х			
		Low Power cylinder									
621*	1137	Nº 1 (left row of									
Yellow	18	cylinders)						Х	2	2	2
		Low Power cylinder									
622*	1138	№ 2 (left row of									
Yellow	18	cylinders)						Х	2	2	2
		Low power of the									
623*	1139	cylinder № 3 (left									
Yellow	18	row of cylinders)						Х	2	2	2
		Low power of the									
624*	1140	cylinder № 4 (left									
Yellow	18	row of cylinders)						Х	2	2	2
		Low Power cylinder									
625*	1141	№ 5 (left row of									
Yellow	18	cylinders)						Х	2	2	2
		Low Power cylinder									
626*	1142	№ 6 (left row of									
Yellow	18	cylinders)						Х	2	2	2
		Low power of the									
627*	1143	cylinder № 7 (left									
Yellow	18	row of cylinders)								2	2
		Low Power cylinder									
628*	1144	№ 8 (left row of									
Yellow	18	cylinders)								2	2
		Low Power cylinder									
631*	1143	№ 1 (right row of									
Yellow	45	cylinders)							2	2	2
		Low Power cylinder	Ţ								
631*	1329	№ 1 (right row of									
Yellow	1	cylinders)						Х			
1		Low power of the									
632*	1144	cylinder № 2 (right									
Yellow	45	row of cylinders)							2	2	2

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

			High temperature of exhaust gas cylinder								
642*		1138	Nº 2 (left row of								
Red		0	cylinders)					Х	2	2	2
			High temperature of								
			exhaust gas cylinder								
643*		1139	№ 3 (left row of								
Red		0	cylinders)					Х	2	2	2
			High temperature of								
			exhaust gas cylinder								
644*		1140	№ 4 (left row of								
Red		0	cylinders)					Χ	2	2	2
			High temperature of								
			exhaust gas cylinder								
645*		1141	№ 5 (left row of								
Red		0	cylinders)					Х	2	2	2
			High temperature								
			exhaust Gas cylinder								
646*		1142	№ 6 (left row of								
Red		0	cylinders)					Х	2	2	2
			High temperature of								
			exhaust gases								
647*		1143	Cylinder № 7 (left								
Red		0	row of cylinders)							2	2
			High temperature of								
			exhaust gas cylinder								
648*		1144	№ 8 (left row of								
Red		0	cylinders)							2	2
649	S115	1378	Oil and oil filter need								
None	0	0	to be replaced			Х	Х		3	3	3
			High temperature of								
			exhaust gas cylinder								
651*		1143	Nº 1 (right row of								
Red		30, 45	cylinders)					Х	2	2	2
652*		1111	High tomporature of								
Red		1144 30, 45	High temperature of exhaust gas cylinder					Х	2	2	2
Keu		30, 45	exilaust gas cyllnder					٨		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 Nº 4 (right row of cylinders)				х	2	2	2
655* Red	1147 30, 45	High temperature of exhaust gas cylinder Nº 5 (right row of cylinders)				х	2	2	2
656* Red	1148 30, 45	High temperature exhaust Gas cylinder Nº 6 (right row of cylinders)				X	2	2	2
657* Red	1150 0	High temperature of exhaust gas cylinder Nº 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			

662*	1138	Overpowered cylinder № 2 (left							
Yellow	16	row of cylinders)					2	2	2
662* Yellow	1324 0	Overpowered cylinder № 2 (left row of cylinders)				Х			
663* Yellow	1139 16	Overpowered cylinder № 3 (left row of cylinders)					2	2	2
663* Yellow	1325 0	Overpowered cylinder № 3 (left row of cylinders)				Х			
664* Yellow	1140 16	Inflated cylinder capacity of № 4 (left row of cylinders)					2	2	2
664* Yellow	1326 0	Inflated cylinder capacity of № 4 (left row of cylinders)				Х			
665* Yellow	1141 16	Inflated cylinder capacity of № 5 (left row of cylinders)					2	2	2
665* Yellow	1327 0	Inflated cylinder capacity of № 5 (left row of cylinders)				Х			
666* Yellow	1142 16	Inflated cylinder capacity of № 6 (left row of cylinders)					2	2	2
666* Yellow	1328 0	Inflated cylinder capacity of № 6 (left row of cylinders)				X			
667* Yellow	1143 16	Overpowered cylinder № 7 (left row of cylinders)						2	2
668* Yellow	1144 16	Overpowered cylinder № 8 (left row of cylinders)						2	2

						I				
669*			Need to replace the							
None			coolant filter				Х	4	4	4
ļ ,			Loss of signal from							
			the temperature							
ļ ,			sensor of the exhaust							
671*	1	L137	gas cylinder № 1 (left							
None		4	row of cylinders)				Χ	4	4	4
ļ			Loss of signal from							
ļ			the temperature							
ļ			sensor of the exhaust							
672*	1	138	gas cylinder № 2 (left							
None		4	row of cylinders)				Χ	4	4	4
			Loss of signal from							
ļ			the temperature							
			sensor of the exhaust							
673*	1	139	gas cylinder № 3 (left							
None		4	row of cylinders)				Χ	4	4	4
			Loss of signal from							
ļ			the temperature							
ļ			sensor of the exhaust							
674*	1	140	gas cylinder № 4 (left							
None		4	row of cylinders)				Χ	4	4	4
			Loss of signal from							
			the temperature							
ļ			sensor of the exhaust							
675*	1	141	gas cylinder № 5 (left							
None		4	row of cylinders)				Χ	4	4	4
			Loss of signal from							
ļ			the temperature							
ļ			sensor of the exhaust							
676*	1	142	gas cylinder № 6 (left							
None		4	row of cylinders)				Х	4	4	4
			Loss of signal from							
			the temperature							
!			sensor of the exhaust							
677*	1	143	gas cylinder № 7 (left							
None		4	row of cylinders)						4	4

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		Loss of signal from										
		the temperature										
		sensor of the exhaust										
678*	1144	gas cylinder № 8 (left										
None	4	row of cylinders)									4	4
679*		Coolant replacement										
None		Required							Χ	Χ	4	4
		Circuit of the air										
		temperature sensor										
		at the entrance to										
		the turbocharger-										
		short circuit (left row										
691*	1172	of cylinders, first										
None	3	stage)							Х			
		Circuit of the air										
		temperature sensor										
		at the entrance to										
		the turbocharger-										
		breakage of the										
		chain (left row of										
692*	1172	cylinders, second										
None	4	stage)							Х			
		Circuit of the air										
		temperature sensor										
		at the entrance to										
		the turbocharger-										
		short circuit (right										
694*	1173	row of cylinders, first										
None	3	stage)								3	3	3
		Circuit of the air										
		temperature sensor										
		at the entrance to										
		the turbocharger-										
		breakage of the										
		chain (right row of										
695*	1174	cylinders, second										
None	4	stage)								3	3	3

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)				Х			
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)				Х			
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)				Х			
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)				Х			

	I		1		Ī	I	l						
		1147 (45)											
		1148	High power in 5m										
715*		(60)	cylinder (right row of										
Yellow		`16 [°]	cylinders)								2	2	2
			High power in 5m										
715*		1333	cylinder (right row of										
Yellow		0	cylinders)							Х			
		1148											
		(45)											
		1149	High power in 6m										
716*		(60)	cylinder (right row of										
None		16	cylinders)								2	2	2
			High power in 6m										
716*		1334	cylinder (right row of							.,			
Yellow	-	0	cylinders)							Х			
717*		1150	High power in 7m										
Yellow		0	cylinder (right row of cylinders)									2	2
Tellow		0	High power in the										2
718*		1151	8m cylinder (right										
Yellow		0	row of cylinders)									2	2
			Crankcase pressure										
	P022	1264	sensor chain-short										
719 Yellow	3	3	circuit					Х	Х	Х	2	2	2
			Loss of signal from										
		1143	the temperature										
		(30,45)	sensor of the exhaust										
724*		1145	gas cylinder № 1										
721*		(60)	(right row of							Х	4	4	4
None		4	cylinders)							^	4	4	4
		1144											
		(30,45)	Loss of signal from										
		1146	the temperature										
722*		(60)	sensor of the exhaust										
None		4	gas cylinder № 2							Χ	4	4	4

		(right row of cylinders)							
	1145 (30,45) 1147	Loss of signal from the temperature sensor of the exhaust gas cylinder № 3							
723* None	(60) 4	(right row of cylinders)				Х	4	4	4
724* None	1146 (30,45) 1148 (60) 4	Loss of signal from the temperature sensor of the exhaust gas cylinder № 4 (right row of cylinders)				x	4	4	4
725* None	1147 (30,45) 1149 (60) 4	Loss of signal from the temperature sensor of the exhaust gas cylinder № 5 (right row of cylinders)				x	4	4	4
726* None	1148 (30,45) 1150 (60) 4	Loss of signal from the temperature sensor of the exhaust gas cylinder № 6 (right row of cylinders)				х	4	4	4
727* None	1151 4	Loss of signal from the temperature sensor of the exhaust gas cylinder № 7 (right row of cylinders)						4	4
728* None	1152 4	Loss of signal from the temperature						4	4

			sensor of the exhaust		I	1	ĺ					
			gas cylinder № 8									
			(right row of									
			cylinders)									
			Chain of pressure									
729	P022	1264	sensor of crankcase									
Yellow	4	4	gases-chain breakage				Х	Х	Х	2	2	2
			Engine parameters									
747*			fixation system-free									
None			memory running out						Χ	4	4	4
			System of fixation of									
748*			engine parameters-									
None			memory is over						Χ	3	3	3
			Engine parameters									
			Recording system at									
			the moment of error									
			occurrence-free									
749*			memory at the same									
None			time						Χ	4	4	4
753	S064	723										
None	2	2				Х	Х	Х		3	3	3
			Engine parameters									
			Recording system at									
			the moment of error									
754*			occurrence-free									
None			memory is over						Х	3	3	3
			Incorrect amount of									
			fuel in the nozzle in									
755	P157	157	one of the first three									
Yellow	7	7	cylinders.			Х						
756*			Oil filters need to be									
None			replaced.						Х	4	4	4
			Critical power loss.									
757*			Loss of data in the									
None			engine control unit.			<u> </u>			Χ	4	4	4

758 Yellow	P129 7	1349 7	Incorrect amount of fuel in the nozzle in one of the cylinders from the 4th to the 6th.					X					
			Signal error from external device										
768 Yellow	S009 11	923 11	(variable geometry turbocharger or transmission)	X	x	X							
777 Yellow	P173 0	1180 0	Increased temperature at the entrance to the turbine Turbocharger Nº 1-Warning						Х		2	2	2
779 Yellow	S051 11	703 11	Exceeding the limit value of the parameter of the customer's equipment at the outlet No 3	X	X	Х							
783 Red			Frisky increase in temperature in inlet manifold (front manifold left row of cylinders)									1	1
951 None	P166 2	166 2	Power imbalance in cylinders				х	х					
1000 None			The hardware controller has initiated the recording of fault codes							X			
2144*	0	1153 0	High temperature of exhaust gas cylinder Nº 9 (left row of cylinders)										2

1	1	Í	High temperature of	1	İ		ı	I]	[
			exhaust gas cylinder									
		1154	Nº 9 (right row of									
2145*		0	cylinders)									2
			Loss of signal from					1				
			the temperature									
			sensor of the									
			graduates gas									
		1153	cylinder № 9 (right									
2146*	4	4	row of cylinders)									4
			Loss of signal from									
			the temperature									
			sensor of the									
			graduates gas									
		1154	cylinder № 9 (left									
2147*	4	4	row of cylinders)									4
			High power in 9m									
		1340	cylinder (left row of									
2148*	0	16	cylinders)									2
			High power in 9m									
		1341	cylinder (right row of									
2149*		16	cylinders)									2
			Low power in 9m									
		1340	cylinder (left row of									
2151*		18	cylinders)									2
			Low power in 9m									
		1341	cylinder (right row of									_
2152*		18	cylinders)									2
			Oil pressure sensor									
2154*		611	chain after oil filter-									_
None		3	short circuit.					1	Х	3	3	3
			The chain of the oil									
			pressure sensor after									
2.175#			the oil filter is a									
2155*		611	breakage of the							_		_
None		4	chain.						Χ	3	3	3

1	i i	Ī	l	i i	I	Ī	Ī	i	Ī	İ	Ī	i i	ı
			Sharp rise in										
			temperature in the										
			inlet manifold (rear										
2157*			manifold of the left										
Red			row of cylinders)									1	1
			Sharp rise in										
			temperature in the										
			inlet manifold (front										
2158*			manifold right row of										
Red			cylinders)									1	1
			Sharp rise in										
			temperature in the										
			inlet manifold (rear										
2159*			manifold right row of										
Red			cylinders)									1	1
			Output of the										
			pressure value of the										
			equipment of the										
			customer at the										
			output № 2 beyond										
			the permissible										
2194*	P223	1387	limits, protection										
Yellow	11	11	operation-warning	Χ	Χ	Χ							
			Exceeding the limit										
			value of the										
			equipment operation										
			of the customer at										
			the output № 3,										
2195*	S051	703	Protection triggering,										
Red	14	14	critical value	Χ	Χ	Х							
			The air temperature										
			in the inlet manifold										
			is too high (the										
			middle collector is										
			the left row of										
2241*			cylinders)										2

	Circuit of the air			Ī			
	temperature sensor						
	in the inlet manifold-						
	short circuit (middle						
	collector left row of						
2242*	cylinders)						2
	Circuit of the air						
	temperature sensor						
	in the inlet manifold-						
	breakage of the						
	chain (middle						
	collector left row of						
2243*	cylinders)						2
	Sharp rise in						
	temperature in the						
	inlet manifold						
	(middle collector left						
2244*	row of cylinders)						2
	The air temperature						
	in the inlet manifold						
	is too high (the						
	middle manifold is						
	the right row of						
2245*	cylinders)						2
	Circuit of the air						
	temperature sensor						
	in the inlet manifold-						
	short circuit (middle						
	manifold right row of						
2246*	cylinders)						2
	Circuit of the air						
	temperature sensor						
	in the inlet manifold-						
	breakage of the						
	chain (middle						
	manifold right row of						
2247*	cylinders)						2

1 1 1	Sharp rise in	1 1		I	i		I	l i]
	temperature in the								
	inlet manifold								
	(middle manifold								
	right row of								
2248*	cylinders)								2
2240	High pressurization	+							
	pressure in the front								
2251*	intermediate cooler								2
2231		+							
	Low boost pressure in the front								
2252*	intermediate cooler								2
2252**		+							2
	pressurization								
	pressure sensor								
	circuit in the front								
00-04	intermediate cooler-								_
2253*	short circuit								2
	Pressurized pressure								
	sensor circuit in the								
	front intermediate								
	cooler-chain								
2254*	breakage								2
	High pressurization								
	pressure in the rear								
2255*	intermediate cooler								2
	Low boost pressure								2 2 2
	in the rear								
2256*	intermediate cooler								2
	The circuit of the								
	pressurization								
	pressure sensor in								
	the rear								
	intermediate Cooler-								
2257*	Short Circuit	<u> </u>	 			 			2
	Boost pressure					 			
2258*	sensor circuit in rear								2

		intermediate cooler-						l
		chain break						

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