

	Alarms	FSW-No 2_807_11_1_0_27	FSW Plant	
			FSW Engine	.

No	ZKP-No	Name	Description
3	2.0122.931	HI T-Fuel	Fuel temperature too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
4	2.0122.932	SS T-Fuel	Fuel temperature too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
5	2.0121.931	HI T-Charge Air	Charge air temperature too high (limit 1) ==> Check InterCooler (Alarm Configuration Parameter, for details see PR 2.8008.100)
6	2.0121.932	SS T-Charge Air	Charge air temperature too high (limit 2) ==> Check InterCooler (Alarm Configuration Parameter, for details see PR 2.8008.100)
15	2.0100.921	LO P-Lube Oil	Pressure of lube oil too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
16	2.0100.922	SS P-Lube Oil	Pressure of lube oil too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
19	2.0126.931	HI T-Exhaust A	Exhaust gas temperature (A-side) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
20	2.0126.932	SS T-Exhaust A	Exhaust gas temperature (A-side) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
21	2.0127.931	HI T-Exhaust B	Exhaust gas temperature (B-side) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
22	2.0127.932	SS T-Exhaust B	Exhaust gas temperature (B-side) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
23	2.0152.921	LO Coolant Level	Coolant level too low (limit 1) ==> Check coolant level in compensation container (Alarm Configuration Parameter, for details see PR 2.8008.100)
25	2.0154.931	HI P-Diff-Lube Oil	Differential pressure of oilfilter too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
26	2.0154.932	SS P-Diff-Lube Oil	Differential pressure of oilfilter too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)



	Alarms	FSW-No 2_807_11_1_0_27	FSW Plant	
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No	ZKP-No	Name	Description
30	2.2510.932	SS Engine Overspeed	Engine Overspeed (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
31	2.3011.931	HI ETC1 Overspeed	Speed of basic charger too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
32	2.3012.932	SS ETC1 Overspeed	Speed of basic charger too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
33	2.0114.931	HI P-Diff-Fuel	Differential pressure of fuelfilter too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
34	2.0114.932	SS P-Diff-Fuel	Differential pressure of fuelfilter too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
36	2.3013.931	HI ETC2 Overspeed	Speed of 1st switcheable charger too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
37	2.3013.912	SS ETC2 Overspeed	Speed of 1st switcheable charger too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
51	2.0125.931	HI T-Lube Oil	Lube oil temperature too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
52	2.0125.932	SS T-Lube Oil	Lube oil temperature to high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
57	2.0101.921	LO P-Coolant	Coolant pressure too low (limit 1) ==> check cooling cycle. (Alarm Configuration Parameter, for details see PR 2.8008.100)
58	2.0101.922	SS P-Coolant	Coolant pressure too low (limit 2) ==> Engine stop or limitation of the injection quantity ==> check cooling cycle (Alarm Configuration Parameter, for details see PR 2.8008.100)
59	2.0120.933	SS T-Coolant L3	Coolant temperature too high/ too low (limit 3). (Alarm Configuration Parameter, for details see PR 2.8008.100)
60	2.0120.934	SS T-Coolant L4	Coolant temperature too high/ too low (limit 4). (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
65	2.0102.921	LO P-Fuel	Fuel supply pressure too low (limit 1) ==> Check filter, fuel on low-pressure side (Alarm Configuration Parameter, for details see PR 2.8008.100)
66	2.0102.922	SS P-Fuel	Fuel supply pressure too low (limit 2) ==> Check filter (low-pressure side) (Alarm Configuration Parameter, for details see PR 2.8008.100)
67	2.0120.931	HI T-Coolant	Coolant temperature too high (limit 1) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
68	2.0120.932	SS T-Coolant	Coolant temperature too high (limit 2) ==> Check circulation of coolant (Alarm Configuration Parameter, for details see PR 2.8008.100)
81	1.8004.046	AL Rail Leakage	Rail pressure gradient too low for Start or too high for Stop (==> High-pressure system leaks, air in the system) (Alarm Configuration Parameter, for details see PR 2.8008.100)
82	2.0104.931	HI P-Fuel (Common Rail)	Rail pressure > setpoint value => DBR reduction, shift of start of injection delayed (==> interphase transformer sticks or connections of the interphase transformer) (Alarm Configuration Parameter, for details see PR 2.8008.100)
83	2.0104.921	LO P-Fuel (Common Rail)	Rail pressure < setpoint value => DBR reduction (==> interphase transformer defective or leakage in high-pressure system) (Alarm Configuration Parameter, for details see PR 2.8008.100)
89	2.2500.030	SS Engine Speed too Low	Engine is being stalled. The engine speed of the normally operating engine dropped below the limit from parameter 2.2500.027 Limit Engine Speed Low without any stop request. For safety reason the engine is stopped when this event occurs. (Alarm Configuration Parameter, for details see PR 2.8008.100)
90	2.1090.925	SS Idle Speed Not Reached	Idle speed not reached ==> Start abort ==> pay attention to other messages (Alarm Configuration Parameter, for details see PR 2.8008.100)
91	2.1090.924	SS Release Speed Not Reached	Acceleration speed not reached ==> Start abort ==> observe other messages (Alarm Configuration Parameter, for details see PR 2.8008.100)
92	2.1090.923	SS Starter Speed Not Reached	Starter speed not reached ==> Start abort ==> Starter does not turn or turns too slowly (Alarm Configuration Parameter, for details see PR 2.8008.100)
93	2.1090.922	SS T-Preheat	Preheat temperature too low (limit 2) ==> Coolant temperature for engine start too low ==> Bolting engine start (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
94	2.1090.921	LO T-Preheat	Preheat temperature too low (limit 1) ==> Coolant temperature for engine start too low (Alarm Configuration Parameter, for details see PR 2.8008.100)
95	2.1090.920	AL Prelubrication Fault	Prelubrication fault. (Alarm Configuration Parameter, for details see PR 2.8008.100)
102	1.8004.624	AL Fuel Cons. Counter Defect	Fuel consumption counter defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
104	1.8004.623	AL Eng Hours Counter Defect	Engine Hours Counter defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
118	2.0140.921	LO ECU Power Supply Voltage	Power supply voltage too low (limit 1) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
119	2.0140.922	LOLO ECU Power Supply Voltage	Power supply voltage too low (limit 2) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
120	2.0140.931	HI ECU Power Supply Voltage	Power supply voltage too high (limit 1) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
121	2.0140.932	HIHI ECU Power Supply Voltage	Power supply voltage too high (limit 2) ==> Check battery / generator (Alarm Configuration Parameter, for details see PR 2.8008.100)
122	2.0132.921	HI T-ECU	Temperature of electronic too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
141	1.1088.007	AL Power too high	This alarm is set if the average of the engine power of the last 24 hours exceeded the value specified by PR1.1088.001. (Alarm Configuration Parameter, for details see PR 2.8008.100)
142	1.1088.006	AL MCR exceeded 1 hour	This alarm is set if in the last 12 hours the MCR was exceeded longer than 1 hour. (Alarm Configuration Parameter, for details see PR 2.8008.100)
176	2.4000.004	AL LifeData not available	No (fitting) LifeData-Backup-System is available within a delaytime after ECU-Reset . ==> Backup-system has no LifeData-function or CAN bus interrupted to Backup-system. (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
177	2.4000.006	AL LifeData restore incomplete	If the ADEC has to restore the LifeData from the backup-system and at least one checksum is wrong after the upload or the upload is incomplete, then this failure is set. (Alarm Configuration Parameter, for details see PR 2.8008.100)
180	2.0500.680	AL CAN1 Node Lost	Connection to a node on CAN bus 1 lost. ==> Check devices connected on CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
181	2.0500.681	AL CAN2 Node Lost	Connection to a node on CAN bus 2 lost. ==> Check devices connected on CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
182	2.0500.682	AL CAN Wrong Parameters	Incorrect CAN parameter values have been entered. (Alarm Configuration Parameter, for details see PR 2.8008.100)
183	2.0500.683	AL CAN No PU-Data	A CAN mode is selected which the communication is initialized aided of the PU data module. However, required PU data module is not present or is not valid. ==> Check the devices connected by CAN (Alarm Configuration Parameter, for details see PR 2.8008.100)
184	2.0500.684	AL CAN PU-Data Flash Error	During attempt to copy a received PU data module to Flash module, a program error occurred. ==> Electronic service (Alarm Configuration Parameter, for details see PR 2.8008.100)
186	2.0500.686	AL CAN1 Bus Off	CAN Controller 1 is in "Bus Off" state => Automatic switchover to CAN2 ==>causes e.g. short circuit, massive interference or baud rate incompatibility (Alarm Configuration Parameter, for details see PR 2.8008.100)
187	2.0500.687	AL CAN1 Error Passive	CAN Controller 1 has signaled a warning. ==> causes e.g. lack of associated nodes, slight interference or short-term bus overload. (Alarm Configuration Parameter, for details see PR 2.8008.100)
188	2.0500.688	AL CAN2 Bus Off	CAN-Controller 2 is in "Bus Off" state => Automatic switchover to CAN 1 ==>causes e.g. short circuit, massive interference or baud rate incompatibility. (Alarm Configuration Parameter, for details see PR 2.8008.100)
189	2.0500.689	AL CAN2 Error Passive	CAN Controller 2 has signaled a warning. ==> causes e.g. lack of associated nodes, slight interference or short-term bus overload. (Alarm Configuration Parameter, for details see PR 2.8008.100)
201	1.8004.570	SD T-Coolant	Coolant temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B6), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
202	1.8004.572	SD T-Fuel	Fuel temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B33), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
203	1.8004.571	SD T-Charge Air	Charge air temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B9), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
206	1.8004.576	SD T-Exhaust A	Exhaust gas temperature-sensor on A-side defect. ==> short circuit or cable breakage ==> Check sensor and cable (B4.21), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
207	1.8004.577	SD T-Exhaust B	Exhaust gas temperature-sensor on B-side defect. ==> short circuit or cable breakage ==> Check sensor and cable (B4.22), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
208	1.8004.566	SD P-Charge Air	Charge air pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B10), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
211	1.8004.563	SD P-Lube Oil	Lube oil pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
212	1.8004.564	SD P-Coolant	Collant pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B16), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
215	1.8004.567	SD P-HD	Rail pressure-sensor defect. ==> High-pressure controller emergency operation ==> short circuit or cable breakage ==> Check sensor and cable (B48), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
216	1.8004.575	SD T-Lube Oil	Lube oil temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B7), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
219	1.8004.573	SD T-Intake Air	Intake air temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B3), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
220	1.8004.584	SD Level Coolant Water	Sensor for coolant level defect. ==> short circuit or cable breakage ==> Check sensor and cable (F33), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
221	1.8004.585	SD P-Diff Lube Oil	Sensor for differential pressure of lube oil defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
222	1.8004.582	SD Level Leakage Fuel	Sensor for leakage level of fuel defect. ==> short circuit or cable breakage ==> Check sensor and cable (F46), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
227	1.8004.620	SD P-Lube Oil before Filter	Pressure sensor for lube oil before filter defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5.3), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
228	1.8004.595	SD P-Fuel before Filter	Fuel pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B5.3), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
229	1.8004.562	AL Stop Camshaft Sensor Defect	Sensor of Camshaft defect and sensor of crankshaft defect before. ==> Engine stop ==> Check sensor and cable of B1, if necessary replace it. ==> After Engine restart curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
230	1.8004.498	SD Crankshaft Speed	Sensor defect on crankshaft. ==> short circuit or cable breakage ==> Check sensor and cable (B13), if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
231	1.8004.499	SD Camshaft Speed	Sensor defect on camshaft. ==> short circuit or cable breakage ==> Check sensor and cable (B1), if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
232	1.3011.128	SD Charger 1 Speed	Speed-sensor of basic charger defect. ==> short circuit or cable breakage ==> Check sensor and cable (B44.1), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
239	1.8004.598	SD P-Diff Fuel	Sensor for differential pressure of lfuel defect. ==> only if SD-Alarme Fuel b. Filter or Fuel after Filter (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
240	1.8004.565	SD P-Fuel	Fuel pressure-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable (B34), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
245	2.8006.589	SD ECU Power Supply Voltage	Internal ECU error. ==> electronic defect (Alarm Configuration Parameter, for details see PR 2.8008.100)
266	2.8006.586	SD Speed Demand	Analog speed demand defect. ==> short circuit or cable breakage ==> Check setpoint tachogenerator and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
269	2.8006.588	SD Loadp.Analog filt	Filtered analog load pulse signal not available. ==> short circuit or cable breakage ==> Check cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
270	2.8006.590	SD Frequency Input	Frequency input defect ==> short circuit or cable breakage (Alarm Configuration Parameter, for details see PR 2.8008.100)
321	1.8004.520	AL Wiring Cylinder A1	Short circuit in injector cable of cylinder A1. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
322	1.8004.521	AL Wiring Cylinder A2	Short circuit in injector cable of cylinder A2. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
323	1.8004.522	AL Wiring Cylinder A3	Short circuit in injector cable of cylinder A3. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
324	1.8004.523	AL Wiring Cylinder A4	Short circuit in injector cable of cylinder A4. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
325	1.8004.524	AL Wiring Cylinder A5	Short circuit in injector cable of cylinder A5. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
326	1.8004.525	AL Wiring Cylinder A6	Short circuit in injector cable of cylinder A6. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
331	1.8004.530	AL Wiring Cylinder B1	Short circuit in injector cable of cylinder B1. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
332	1.8004.531	AL Wiring Cylinder B2	Short circuit in injector cable of cylinder B2. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
333	1.8004.532	AL Wiring Cylinder B3	Short circuit in injector cable of cylinder B3. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
334	1.8004.533	AL Wiring Cylinder B4	Short circuit in injector cable of cylinder B4. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
335	1.8004.534	AL Wiring Cylinder B5	Short circuit in injector cable of cylinder B5. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
336	1.8004.535	AL Wiring Cylinder B6	Short circuit in injector cable of cylinder B6. ==> interrupted ignition ==> Remove short circuit of solenoid (plus to ground) (e.g. replace injector) ==> after engine restart curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
341	1.8004.540	AL Open Load Cylinder A1	Open load in injector cable of cylinder A1 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
342	1.8004.541	AL Open Load Cylinder A2	Open load in injector cable of cylinder A2 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
343	1.8004.542	AL Open Load Cylinder A3	Open load in injector cable of cylinder A3 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
344	1.8004.543	AL Open Load Cylinder A4	Open load in injector cable of cylinder A4 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
345	1.8004.544	AL Open Load Cylinder A5	Open load in injector cable of cylinder A5 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
346	1.8004.545	AL Open Load Cylinder A6	Open load in injector cable of cylinder A6 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
351	1.8004.550	AL Open Load Cylinder B1	Open load in injector cable of cylinder B1 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
352	1.8004.551	AL Open Load Cylinder B2	Open load in injector cable of cylinder B2 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
353	1.8004.552	AL Open Load Cylinder B3	Open load in injector cable of cylinder B3 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
354	1.8004.553	AL Open Load Cylinder B4	Open load in injector cable of cylinder B4 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
355	1.8004.554	AL Open Load Cylinder B5	Open load in injector cable of cylinder B5 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
356	1.8004.555	AL Open Load Cylinder B6	Open load in injector cable of cylinder B6 ==> Interrupted ignition ==> Check cable and solenoid if open load (e.g. replace injector) ==> after cycle curing of failure (Alarm Configuration Parameter, for details see PR 2.8008.100)
361	1.8004.496	AL Power Stage Low	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
362	1.8004.497	AL Power Stage High	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
363	1.8004.560	AL Stop Power Stage	Internal error of electronic (electronic defect possible) ==> Start ITS ==> if electronic o.k. continue to pay attention to messages. If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop. (Alarm Configuration Parameter, for details see PR 2.8008.100)
365	1.8004.561	AL Stop MV-Wiring Ground	Cable line error ==> If bit "1.1020.021" (Power Stage Failure: Stop Engine) set ==> Engine stop ==> possible causes: 1. short circuit of injector line-plus to ground. 2. short circuit of injector line-minus to ground. ==> Check cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
371	1.8004.634	AL Wiring TO 1	Short circuit or open load on transistor output 1 (TO 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
381	2.8006.638	AL Wiring TOP 1	Short circuit or open load on transistor output plant 1 (TOP 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
382	2.8006.639	AL Wiring TOP 2	Short circuit or open load on transistor output plant 2 (TOP 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
383	2.8006.640	AL Wiring TOP 3	Short circuit or open load on transistor output plant 3 (TOP 3). (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
384	2.8006.641	AL Wiring TOP 4	Short circuit or open load on transistor output plant 4 (TOP 4). (Alarm Configuration Parameter, for details see PR 2.8008.100)
390	1.1085.009	AL MCR exceeded	DBR/MCR Function: MCR (Maximum Continuous Rating) is exceeded. (Alarm Configuration Parameter, for details see PR 2.8008.100)
400	2.8006.625	AL Open Load Digital Input 1	Open Load on digitil input 1. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
401	2.8006.626	AL Open Load Digital Input 2	Open Load on digitil input 2. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
402	2.8006.627	AL Open Load Digital Input 3	Open Load on digitil input 3. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
403	2.8006.628	AL Open Load Digital Input 4	Open Load on digitil input 4. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
404	2.8006.629	AL Open Load Digital Input 5	Open Load on digitil input 5. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
405	2.8006.630	AL Open Load Digital Input 6	Open Load on digitil input 6. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
406	2.8006.631	AL Open Load Digital Input 7	Open Load on digitil input 7. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
407	2.8006.632	AL Open Load Digital Input 8	Open Load on digitil input 8. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
408	2.8006.633	AL Open Load Emerg. Stop Input ESI	Open Load on input for emergency stop. ==> cable breakage or no resistance above switch (Alarm Configuration Parameter, for details see PR 2.8008.100)
410	2.0141.921	LO U-PDU	Power driver voltage (injectors) too low (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
411	2.0141.922	LOLO U-PDU	Power driver voltage (injectors) too low (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)



	Alarms	FSW-No 2_807_11_1_0_27	FSW Plant	
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No	ZKP-No	Name	Description
412	2.0141.931	HI U-PDU	Power driver voltage (injectors) too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)
413	2.0141.932	HIHI U-PDU	Power driver voltage (injectors) too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
414	2.0156.931	HI Level Water Fuel Prefilter	Water level of fuel prefilter too high (limit 1) ==> empty fuel prefilter (Alarm Configuration Parameter, for details see PR 2.8008.100)
417	1.8004.594	SD Level Water Fuel Prefilter	Water level-sensor of fuel prefilter defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
438	2.0116.921	LO P-Fuel 2 (Common Rail)	Rail pressure < setpoint value => DBR reduction (==> interphase transformer defective or leakage in high-pressure system) (Alarm Configuration Parameter, for details see PR 2.8008.100)
439	2.0116.931	HI P-Fuel 2 (Common Rail)	Rail pressure > setpoint value => DBR reduction, shift of start of injection delayed (==> interphase transformer sticks or connections of the interphase transformer) (Alarm Configuration Parameter, for details see PR 2.8008.100)
441	1.8004.047	AL Rail 2 Leakage	Rail pressure gradient too low for Start or too high for Stop (==> High-pressure system leaks, air in the system) (Alarm Configuration Parameter, for details see PR 2.8008.100)
444	1.8004.578	SD U-PDU	Sensor defect of Injector Power driver unit. ==> Internal error of ECU7. Change ECU7. (Alarm Configuration Parameter, for details see PR 2.8008.100)
445	1.8004.580	SD P-Ambient Air	Ambient air pressure-sensor defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
446	1.8004.599	SD P-HD2	Rail pressure-sensor defect. ==> High-pressure controller emergency operation ==> short circuit or cable breakage ==> Check sensor and cable (B48), if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
448	2.0103.931	HI P-Charge Air	Pressure of charge air too high (limit 1). (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
449	2.0103.932	SS P-Charge Air	Pressure of charge air too high (limit 2). (Alarm Configuration Parameter, for details see PR 2.8008.100)
450	2.8006.592	SD Idle/End-Torque Input [%]	Input of Idle/End-Torque defect. ==> short circuit or cable breakage ==> Check transmitter and cable, if necessary replace it. After Engine restart follows curing of failure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
454	2.7000.011	SS Power Reduction Active	Power Reduction is activated. (Alarm Configuration Parameter, for details see PR 2.8008.100)
470	1.8004.587	SD T-ECU	ECU temperature-sensor defect. ==> short circuit or cable breakage ==> Check sensor and cable, if necessary replace it. (Alarm Configuration Parameter, for details see PR 2.8008.100)
472	2.8006.593	AL Stop SD	Engine stop, because critical channel has sensor defect. (Alarm Configuration Parameter, for details see PR 2.8008.100)
474	2.8006.655	AL Wiring FO	Open load or short circuit on frequency output (FO) channel. (Alarm Configuration Parameter, for details see PR 2.8008.100)
475	1.8010.009	AL CR Trigger Engine Stop	Released in case of an engine stop in order to trigger the crash recorder. (Alarm Configuration Parameter, for details see PR 2.8008.100)
476	1.8010.007	AL Crash Rec. Init. Error	Initial error of crash recorder. (Alarm Configuration Parameter, for details see PR 2.8008.100)
478	2.8006.001	AL Comb. Alarm Yel (Plant)	Combined Alarm YELLOW (Plant). (Alarm Configuration Parameter, for details see PR 2.8008.100)
479	2.8006.002	AL Comb. Alarm Red (Plant)	Combined Alarm RED (Plant). (Alarm Configuration Parameter, for details see PR 2.8008.100)
480	2.0291.921	AL Ext. Engine Protection	External Engine Protection function active. (Alarm Configuration Parameter, for details see PR 2.8008.100)
510	2.7002.010	AL Override applied	Override applied. (Alarm Configuration Parameter, for details see PR 2.8008.100)



	Alarms	FSW-No 2_807_11_1_0_27	FSW Plant	
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No	ZKP-No	Name	Description
515	2.1090.926	AL Starter Not Engaged	Starter of POM could not be engaged. => New starting attempt. If the number of automatic starting attempts from PR 1.1090.134 Number of Starting Attempts has been executed, starting procedure is aborted. Check POM, starter and cabling. (Alarm Configuration Parameter, for details see PR 2.8008.100)
543	2.0555.005	AL Multiple FDH Slaves	There is more than one device which is configured as Backup for FDH-Functionality. (Alarm Configuration Parameter, for details see PR 2.8008.100)
544	2.0555.003	AL Configuration Changed	Gets active in case of changing system configuration e. g. by changing ECU- or SAM-Device. Remains until undo procedure or data is transferred by a valid maintenance case. Is cancelled automatically. (Alarm Configuration Parameter, for details see PR 2.8008.100)
549	2.7001.952	AL Power Cut-Off detected	This is the alarm from the function Emergency Stop Counter. ECU power was disconnected while the engine was still running. This could lead to a possible overpressure in the high pressure system which might damage the engine. (Alarm Configuration Parameter, for details see PR 2.8008.100)
555	2.0555.001	AL Call MTU Field Service	Gets active in case of completing a maintenance-case which manipulates Engine-Parameters. Remains also after switching on-off ECU until a valid release code is entered via Display- and Button-Control of SAM-Device. Release Code is available via Internet by a special procedure. (Alarm Configuration Parameter, for details see PR 2.8008.100)
576	1.1075.083	AL ESCM Override	Exceeding of the corrected current MCR- odr DBR/MCR value. Engine Overload! (Alarm- Configurations- Parameter, for details see PR 2.8008.100)
594	1.1301.900	AL L1 PRV Defect	Yellow alarm pressure relief valve first rail.
595	1.1301.901	AL L2 PRV Defect	Red alarm pressure relief valve first rail.
598	1.1302.900	AL L1 PRV Defect	Yellow alarm pressure relief valve second rail.
599	1.1302.901	AL L2 PRV Defect	Red alarm pressure relief valve second rail.
610	1.1301.902	AL Wiring Suction Restritor 1	Open load or short circuit on PWM channel suction restritor. (Alarm Configuration Parameter, for details see PR 2.8008.100)
611	1.1302.902	AL Wiring Suction Restritor 2	Open load or short circuit on PWM channel suction restritor 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)
612	1.1301.903	AL Wiring Pressure Control Valve 1	Open load or short circuit on PWM channel pressure control valve (Alarm Configuration Parameter, for details see PR 2.8008.100)



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No	ZKP-No	Name	Description
613	1.1302.903	AL Wiring Pressure Control Valve 2	Open load or short circuit on PWM channel pressure control valve 2. (Alarm Configuration Parameter, for details see PR 2.8008.100)

