

Signals

dataId	Unit	Description	Status
21EL	rpm	Rotational speed of the engine. Idle = 500 rpm Rated = 900 rpm	Ok ▾
61XS	bool	Autostop over speed. Digital indication of alarm state from the Safety system. True - No active alarm False - Active alarm	Unknown ▾ Only True value
62XS	bool	Autostop lubrication oil pressure low. Digital indication of alarm state from Safety system. True - No active alarm False - Active alarm	Unknown ▾ Only True value
63XS	bool	Autostop oil mist concentration in crankcase high. Digital indication of alarm state from Safety system. True - No active alarm False - Active alarm	Unknown ▾ Only True value
64XS	bool	Autostop high jacket water temperature at engine outlet. Digital indication of alarm state from Safety system. True - No active alarm False - Active alarm	Ok ▾
65XS	bool	Emergency stop button activated. Digital indication of alarm state from Safety system. True - No active alarm False - Active alarm	Unknown ▾ Only True value
66XS	bool	Autostop gear oil pressure low. Digital input signal to safety system indicating low gear oil pressure. True - No active alarm False - Active alarm	Unknown ▾ Only True value
71XS	bool	Engine speed pickup failure in Safety system. Digital signal state indicating error on speed measurement by engine safety system. True - No active alarm False - Active alarm	Unknown ▾ Only True value

dataId	Unit	Description	Status
74XS	Enum	<p>Value indicating a wire break on critical signals to the Safety system</p> <p>0..1 = No wirebreak</p> <p>2 = Wire break Gear oil pressure - 51XS</p> <p>3 = Wire break Emergency stop button - 71EL</p> <p>4 = Wire break Jacket water temperature - 07HT</p> <p>5 = Wire break Oil mist shutdown - A04LO</p> <p>6 = Wire break Lub oil pressure aft. filter - 15LO</p> <p>7 = Wire break Shutdown solenoid - 77SA</p>	<p>Unknown ▾</p> <p>Only 0 value</p>
41XS	bool	<p>Control cabinet 24VDC failure. Digital signal indicating problems with the 24 VDC power supply to the engine control cabinet (ECC)</p> <p>True - No active alarm</p> <p>False - Active alarm</p>	<p>Ok ▾</p>
75XS	bool	<p>Safety PLC failure. Digital signal indicating that the Safety PLC has entered STOP mode.</p> <p>True - No active alarm</p> <p>False - Active alarm</p>	<p>Unknown ▾</p> <p>Only True value</p>
12XS	bool	<p>Engine running status</p> <p>True - Engine running (rpm > 300)</p> <p>False - Engine stopped</p>	<p>Ok ▾</p>
13XS	bool	<p>Interlock start</p> <p>True - Engine start blocked</p> <p>False - Engine start allowed</p>	<p>Ok ▾</p>
11XS	bool	<p>Start failure. Engine failed to start</p> <p>True - Active alarm</p> <p>False - No active alarm</p>	<p>Unknown ▾</p> <p>Only False value</p>
20XS	bool	<p>Alarm interlock to monitoring system. Digital signal from engine control system to block given alarms on the IAS as the engine is starting. Usually active while engine is stopped and the first 30 seconds after start</p> <p>True - Active alarm</p> <p>False - No active alarm</p>	<p>Ok ▾</p>

dataId	Unit	Description	Status
90EL	°C	Charge air temperature control set point for PID control of LT water through charge air cooler. Normal range is 37..55°C	Ok ▾
27XS	bool	Alarm reduce load to monitoring system Digital signal from engine control system to reduce load to the operator. True - Reduce load request False - No active alarm	Unknown ▾ Only False value
19XS	bool	Control PLC failure Digital signal indicating that the engine control PLC has entered STOP mode True - No active alarm False - Active alarm	Unknown ▾ Only True value
11XA	bool	PLC intercommunication failure. Digital signal indicating communication problems between the Control PLC and the Safety PLC. True - No active alarm False - Active alarm	Unknown ▾ Only True value
91XS	bool	Auto stop Major alarm from speed governor. Digital signal from engine Safety system indicating if the digital speed governor has performed entered an Autostop condition True - Active alarm False - No active alarm	Unknown ▾ Only False value
92XS	bool	Minor alarm from speed governor. Digital signal from engine Control system indicating if there is an active warning/alarm in the digital speed governor True - Active alarm False - No active alarm	Ok ▾
75EL	bool	Key switch/turning gear interlock. Digital signal in engine Control PLC indicating if the manual engine key switch is in the start block position or the turning gear is engaged; both conditions resulting in a start blocking condition. True - Active start block condition False - No start block	Unknown ▾ Only False value
10XS	bool	Start interlock from external Digital input signal in engine Control PLC indicating a start block condition from an external	Unknown ▾ Only False value

dataId	Unit	Description	Status
		system True - Active start block condition False - No start block	
B14LO	bool	Start interlock low lubrication oil pressure. Signal indicating if engine start is blocked due to low lubrication oil priming pressure True - Active start block condition False - No start block	Ok ▾
90XS	Enum	Digital speed governor status code. Code value indicating minor alarm condition. 0..1 = No alarm 2 = Communication error PLC <-> Governor 3..4 = No alarm 5 = Remote speed demand signal failure 6 = Charge air pressure sensor failure 7 = Speed sensor 1 failure 8 = Speed sensor 2 failure 9 = LON communication failure 10 = Load sensor signal failure 11 = No alarm 12 = Speed sensor 1 failure with clutch open 13 = Both speed sensors failure 14 = Over speed 15 = Wire break on control signal to fuel actuator	Ok ▾
25EL	rpm	Turbocharger speed	Ok ▾
05CA	°C	Charge air temperature in air receiver	Ok ▾
06HT	°C	HT water temperature (jacket water) at engine outlet	Ok ▾

dataId	Unit	Description	Status
05LO	°C	Lubrication oil temperature at engine inlet	Ok ▾
05DO	°C	Fuel oil temperature at engine inlet	Ok ▾
10DO	°C	Fuel oil pressure after fine filter at engine inlet	Ok ▾
10SA	bar	Starting air pressure	Ok ▾ Sensor failure on engine 1
14SA	bar	Control air pressure	Ok ▾
10HT	bar	HT water pressure at engine inlet	Ok ▾
11LO	bar	Rocker arms lubrication oil pressure	Ok ▾
21CA	bar	Charge air pressure in air receiver	Ok ▾
B04LO	bool	Oil mist detector failure. Digital signal indicating a problem with the oil mist detector True - No alarm condition False - Active alarm	Unknown ▾ Only True value
10EX	°C	Exhaust temperature after turbocharger	Ok ▾
11EX	°C	Exhaust temperature before turbocharger cylinder group 1	Ok ▾
12EX	°C	Exhaust temperature before turbocharger cylinder group 2	Ok ▾
01EX	°C	Exhaust temperature at cylinder 1 outlet	Ok ▾
02EX	°C	Exhaust temperature at cylinder 2 outlet	Ok ▾
03EX	°C	Exhaust temperature at cylinder 3 outlet	Ok ▾
04EX	°C	Exhaust temperature at cylinder 4 outlet	Ok ▾
05EX	°C	Exhaust temperature at cylinder 5 outlet	Ok ▾
06EX	°C	Exhaust temperature at cylinder 6 outlet	Ok ▾
07EX	°C	Exhaust temperature at cylinder 7 outlet	Ok ▾
08EX	°C	Exhaust temperature at cylinder 8 outlet	Ok ▾

dataId	Unit	Description	Status
05HT	°C	HT water temperature (jacket water) at engine inlet	Ok ▾
06LO	°C	Lubrication oil temperature at engine outlet	Ok ▾
05LT	°C	LT water temperature before charge air cooler	Ok ▾
10LT	bar	LT water pressure	Ok ▾
05NC	°C	Nozzle cooling oil temperature	Ok ▾
13LO	bar	Lubrication oil pressure before filter	Ok ▾
10LO	bar	Lubrication oil pressure after filter	Ok ▾
12DO	bar	High pressure pipe fuel oil leakage pressure	Unknown ▾ No enough variations
01LO	bool	Low level in lubrication oil sump True - Level ok False - Low level	Unknown ▾ Only True value
13DO	bar	Fuel oil pressure before filter	Ok ▾
10NC	bar	Nozzle oil cooling pressure	Ok ▾
B24EL	mm	Fuel rack position	Ok ▾
31EL_LIM	mm	Active fuel limit. The current max allowed fuel rack position	Error ▾
31EL_Alarm	bool	Overload alarm. Digital signal indicating overload condition. True - No alarm False - Overload	Ok ▾
D24EL	mA	Feedback signal from fuel rack transmitter	Ok ▾
C24EL	mm	Fuel rack position corrected. Fuel rack position after calibration and fuel temperature correction	Ok ▾
VVTMiller	bool	Feedback signal indicating VVT in <i>Miller</i> position	Error ▾ Shows only False
VVTLowLoad	bool	Feedback signal indicating VVT in <i>Low Load</i> position	Error ▾ Shows only

dataId	Unit	Description	Status
			False
VVTFailure	n	VVT failure code	Unknown ▾ Shows only 0
VVTLLCmd	bool	VVT <i>Low Load</i> position command from the Control PLC	Error ▾ Shows only False
51XA		Status UN01. Node status for CAN300 communication module 05 - Running	Ok ▾
53XA		Status UN03. Node status for CAN IO module 3 05 - Running	Ok ▾
54XA		Status UN04. Node status for CAN IO module 4 05 - Running	Ok ▾
55XA		Status UN05. Node status for CAN IO module 5 05 - Running	Ok ▾
57XA		Status UN07. Node status for CAN IO module 7 05 - Running	Ok ▾
16DO	bar	Fuel oil pressure after fine filter	Ok ▾
B21CA	bar	Charge air pressure in air receiver	Ok ▾
14LO	bar	Lubrication oil pressure after filter	Ok ▾
24EL	mm	Fuel rack position	Ok ▾
07HT	°C	HT water temperature (jacket water) at engine outlet	Ok ▾
15LO	bar	Lubrication oil pressure after filter	Ok ▾
05XS	bool	0-pitch start block. Digital signal blocking engine start if not 0-pitch	Unknown ▾ Shows only False
B61XS	bool	Auto stop active. Digital signal indicating if an auto stop condition is true	Ok ▾
DO_10013	bool	Governor - RUN input. Digital input to speed governor indicating RUN condition	Ok ▾

dataId	Unit	Description	Status
		True - RUN active False - STOP active	
DO_10016	bool	Governor - Clutch status input Digital input to speed governor indicating clutch status True - Clutch closed False - Clutch open	Ok ▾
DO_10012	bool	Governor - Isochronous mode Digital input to speed governor indicating request for Isochronous mode True - Isoch mode False - Droop mode	Unknown ▾ Shows only False
DO_10024	bool	Governor - Torque fuel limit active True - Fuel limit active False - Normal	Unknown ▾ Shows only False
DO_10025	bool	Governor - Boost fuel limit active True - Fuel limit active False - Normal	Ok ▾
DO_10026	bool	Governor - Start/max fuel limit active True - Fuel limit active False - Normal	Ok ▾
DO_10027	bool	Governor - Load fuel limit active True - Fuel limit active False - Normal	Unknown ▾ Shows only False
D26_30001	rpm	Engine speed	Ok ▾
D26_30003	rpm	Engine speed reference. Set point for speed governor as received from the propulsion control system	Ok ▾
D26_30004	%	Actuator position command from speed governor	Ok ▾
D26_30005	mm	Fuel rack position indication	Ok ▾
D26_30006	bar	Engine BMEP	Ok ▾
D26_30008	kW	Engine power output	Ok ▾
D26_30009	bar	Charge air pressure in receiver	Ok ▾

dataId	Unit	Description	Status
D26_30016	%	Active fuel limit. Max allowed actuator position	Ok ▾
MsgCount		Message counter	Ok ▾