



Components and Set Points for Alarm/Stop Equipment

HULL: H2431 / 32 / 33

LIAG Order: 180048 0000 - 180050 0000

Nos	Designation	Function			Data			Mechanical Part No.	Electrical Part No.
		Alarm	Stop	CAS*	Scale Range	Switch point	Unit		
1	Cooling water temperature with temperature gauge (Sensor / Transmitter)				40-120°C			U10.01 / R202	
1	Cooling water pressure with temperature gauge (Sensor / Transmitter)				0-5,0 bar			U63.01 / R209	
1	Low lube oil pressure with pressure gauge (Sensor / Transmitter)				0-10,0 bar			S87.01 / R600	
1	Lube oil temperature with temperature gauge (Sensor / Transmitter)				40-150°C			S88.01 / R604	
1	Low cooling water pressure (HT) (Pressostat)	X NC			0,0-2,5 bar	0,2 ↓	kp/cm ² bar	U22.01 R200	
1	High cooling water temperature (HT) (Thermostat)	X NC			70-120°C	93 ↑	°C	U15.01 R203	
1	Low cooling water level (HT) (Level magnet switch)	X NC			level switch sensor	↑		U44.01 R204	
1	Leak in fuel oil pipes (Magnetic operated float switch)	X NC			level switch sensor	↑		K61.01 R400	
1	Low lube oil pressure (Pressostat)	X NC			0,2-3,5 bar	1,5 ↓	kp/cm ² bar	S35.01 R601	
1	High lube oil temperature (Thermostat)	X NC			90-150°C	120 ↑	°C	S40.01 R603	
1	Stop solenoid							K41.02	
1	Speed sensor / magnetic Pick up								B1
1	Shut down Manual		X						
2	Test chock for pressostat for testing pressure							U21.03 S60.01	
1	Electric starter							V16.02	
1	Overspeed Alarm system	X	X		1725 / 2070	↑	rpm		P4
1	Overspeed Alarm / Stop system	X	X		1725 / 2070	↑	rpm		A2
1	Control voltage failure Instrument panel	X		X			V	Relais	
1	low battery voltage alarm Battery charger			X		↓	V		LIAG 1952

Control of alarm limits:

Lube oil pressostats:	Test chock for pressostat connection is mounted on the plant
Cooling water thermostats:	Thermostats are to be taken out of the thermostatpockets and dipped in liquid with known temperature
Lube oil thermostats:	Thermostats are to be taken out of the thermostatpockets and dipped in liquid with known temperature
Cooling water level magnet switch:	Cooling water is to be partly drained off.
Leak in fuel oil pipes:	Container for alarm monitor is to be filled with fuel oil.
Air start pressure pressostat	Close connection to air start cylinder / empty air start cylinder partly
Overspeed:	Demount the tachogenerator (engine side) and connect it to a power drill (or similar) with variable speed. Speed of tachogenerator is half of engine speed

* CAS = Central Alarm System (Main Switch board, Emergency Switch board)

↑ rising by set point	NC	Normal closed
↓ falling by set point	NO	Normal open

Set points - Cooling water	D0824LE	D0826LE	D0836LE	D2866E	D2866TE	D2866LE	D2866LXE
High cooling water temperature (ALARM)	93° C	88° C.	93° C	93° C	88° C	93° C	93° C
High cooling water temperature (STOP)	97° C	93° C.	97° C	97° C	93° C	97° C	97° C

Set points - Cooling water	D2848 LE	D2876LE	D2842LE	D2840LE	D2842LE
High cooling water temperature (ALARM)	93° C	93° C	93° C	93° C	93° C
High cooling water temperature (STOP)	97° C	97° C	97° C	97° C	97° C

Set points - Lube Oil	
High lube oil temperature (ALARM)	All MAN engines = 120 °C