

MAIN ENGINE SDC MTU 16V4000M90 – WJFAC CLASS

MAIN ENGINES ALARMS						
Ser	Description of Parameter	Limit/ value	PME	SME	CME	Remarks
1	Low coolant pressure alarm	0.2 Bar				
2	Low lub oil pressure alarm	1.5 Bar				
3	Low fuel pressure alarm	3.0 Bar				
4	Low starting air pressure alarm	20 Bar				
5	High coolant temperature alarm	95 °C				
6	High combined 'A'/B bank temp alarm	750 °C				
7	High lub oil temperature alarm	92 °C				
8	High sequential temperature alarm	250 °C				
9	High charge air temperature	90 °C				
MAIN ENGINES TRIPS						
10	Low lub oil pressure trip	1.0 Bar				
11	High coolant temperature trip	97 °C				
12	High crankcase pressure trip	20 mBar				
13	Overspeed trip	2415 ERPM				
GEAR BOX SAFETY DEVICE CHECKS						
14	Lub oil pressure alarm	0.3 Bar				
15	Clutch oil pressure alarm	16.5 Bar				
16	Low clutch oil pressure trip	15.5 Bar				
17	Lub oil temperature alarm	95°C				

Diesel Alternators (DA 1, 2 &3).

Ser	Description	Unit	Designed value	Diesel Alternator			Remarks
				DA 1	DA 2	DA 3	
(i)	Low LO Pr. Alarm	Kg/cm ²	1.2				
(ii)	Low LO Pr. Trip	Kg/cm ²	0.7 – 1.0				
(iii)	High FW Temp Alarm	°C	90 ± 2				
(iv)	High FW Temp Trip	°C	95 ± 2				
(v)	Over Speed	RPM	1650				
(vi)	Emergency Stop						

AC Plants (No.1 & 2).

Ser	Description	Unit	Designed value	AC Plant NO. 1	AC Plant NO. 2	Remarks
(i)	LP cut out	Kg/cm ²	1.5 ± 0.5			
(ii)	HP cut out	Kg/cm ²	14.0 ± 0.5			
(iii)	SW pressure cut out	Kg/cm ²	0.5 ± 0.1			
(iv)	Low oil level switch	Ops/ Non-ops				

HP Air Compressor (No. 1 & 2).

Ser	Description	Unit	Design Value	HPAC No.1	HPAC No.2	Remarks	
						HPAC No.1	HPAC No.2
(i)	1 st stage Relief valve	Kg/cm ²	11				
(ii)	2 nd stage Relief valve	Kg/cm ²	32				
(iii)	Auto cut in	Kg/cm ²	25				
(iv)	Auto cut out	Kg/cm ²	30				
(v)	Low LO level switch	Ops/Non-ops					
(vi)	Auto drain	Ops/Non-ops					
(vii)	Manual drain	Ops/Non-ops					
(viii)	High temp cut out	°C	119				