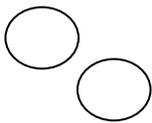
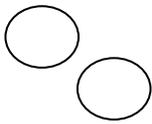


Student Instructions:

1. Fill in the required fields to the best of your ability (Some sections may be N/A)
2. Measurements must be recorded and calculated in metric units (SI)

General details:			
Date of current inspection:		Name of Operator/Watchkeeper:	
Last specialist inspection:		Name of Technician:	
Engine-room NH3 level		Wind Direction & Speed	m/s
Details of last specialist inspection.			
Monthly center of interest activities: (See PM or Work orders from CMMS)			
Current projects:			N/A
Electrical Automation:			
SCADA online		SCADA PC air intake clean (Vacuum)	
UPS tested last 3 months		Change in control documented	
Historical trends reviewed		Switchboards visually inspected	
Looms tidy & Trunking in place		Enclosure ventilation operational	
Notes:			
Refrigeration General Condition:			
System operational values within specification, includes Pressure, temperatures, levels, current.			
Approximate load demand (%) 100% = Suction or Discharge overrange			%
Overall stability (Comment)			
Common Process Variables:			Time:
Suction Pressure (kPa)		Within 10kPa of SP	
LP Liquid Pump Pressure (kPa) Differential		Gauge aligns with SCADA input	
LTR Vessel Level Physical (%)		LTR Vessel Level SCADA (%)	
Intermediate Pressure (kPa)		Within 10kPa of SP	
MTR Vessel Level Physical (%)		IP Vessel Level SCADA (%)	
MTR Liquid Pump Pressure (kPa) Differential		Gauge aligns with SCADA input	
Discharge Pressure (kPa)		Within 10kPa of SP	
HPR Vessel Level Physical (%)		HPR Vessel Level SCADA (%)	
Dry Bulb Temperature (°C)		Condenser Fan Speed/Hz	
Air Purger Operation		Cycle Counter	

Compressors:					Time:	
Compressor Title			Configuration (LP/IP)			
Current Hours Run			Next Inspection Due			
Motor Greasing Due (1000 – 2000 hrs.)			Coalescers Due (10,000hrs)			
Oil Cooler Due Drain/Clean (4000hrs)			Oil Filter Due (4000hrs)			
Online:			Duty			
LP Suction Pressure (Not SCADA)			Suction Temperature (Actual)			
Discharge Pressure (Not SCADA)			Discharge Temperature (Actual)			
Suction Superheat (k)			Discharge Superheat (k)			
Capacity (%)			Speed (%/Hz)		Current Draw	
Capacity Stable (No rapid fluctuations)			< 50kPa HP Variation vs Common			
Oil Pressure Differential			Oil Filter Differential (50kPa max)			
Oil Temperature			Entering		Oil Level	
			Leaving			
Cooling medium	R717		Entering			
	R718		Leaving			
Oil Returning from Separator SG			Mechanical Seal Bleed rate (drops / min)			

Compressors:					Time:	
Compressor Title			Configuration (LP/IP)			
Current Hours Run			Next Inspection Due			
Motor Greasing Due (1000 – 2000 hrs.)			Coalescers Due (10,000hrs)			
Oil Cooler Due Drain/Clean (4000hrs)			Oil Filter Due (4000hrs)			
Online:			Duty			
LP Suction Pressure (Not SCADA)			Suction Temperature (Actual)			
Discharge Pressure (Not SCADA)			Discharge Temperature (Actual)			
Suction Superheat (k)			Discharge Superheat (k)			
Capacity (%)			Speed (%/Hz)		Current Draw	
Capacity Stable (No rapid fluctuations)			< 50kPa HP Variation vs Common			
Oil Pressure Differential			Oil Filter Differential (50kPa max)			
Oil Temperature			Entering		Oil Level	
			Leaving			
Cooling medium	R717		Entering			
	R718		Leaving			
Oil Returning from Separator SG			Mechanical Seal Bleed rate (drops / min)			

Condition Monitoring:			
Lubricant Analysis due		Ammonia Analysis due	
Secondary Refrigerants Analysis due		Vibration Analysis due	
Thermographic (Electrical) due		Thermographic (Mechanical) due	
Legionnaires Report Completed		Water Treatment HCC completed	
Mechanical Integrity:			
Pressure Equip. Corrosion Survey due		CUI & Penetrations Inspection due	
Engine-room Resources:			
Spill Kits full		Valve Position tags available	
Tool board complete		Oil Pump & Hoses clean & tidy	
Health & Safety Management:			
Negative pressure respirators stored		Filters less than 6 months old	
Engine-room and Plant Areas Secure		Signage Condition Satisfactory	
Pressure Equipment Certification valid		Pressure Safety Valves < 5 years	
Fixed Gas Detection Calibration valid		Safety Devices Calibration valid	
Ventilation Operating		Engine-room intake filters clean	
Emergency Valves lubricated / Cycled		Emergency Irrigation 'bumped'	
Emergency Response Simulation due		Escape Pathways Clear	
Notes:			
Lubricant Management:			
Waste Oil Drained LP	L	Waste Oil Drained IP	L
Other locations drained	L	Total Charged	L
Weekly Balance	L	Monthly Ballance	L
Service:			
Total Service on demand (SOD) call outs this week.			
System Shutdowns			
Number of alarms generated			
Spare parts used (Change in kind) List below			
Upgrade parts used (MOC) List below			
Intrusive Maintenance Tasks Required (List below)			
Customer remedial works (List below)			
Operator Signature:		Peer review by: (sign)	