	<p style="text-align: center;">Scope of Work</p>	<p style="text-align: center;">Engineering</p>
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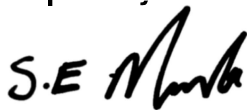
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1. Goal

Goal of this document is to assure the reliability and availability of Kendal Compressors, **6** Unitised Kaeser DSDX 302 and dryers DTI418602 Hybritec, **3** common Kaeser FSD571 and dryers Hybritec DTI668902 and **2** Kaeser Mobilair M350 and Membrane dryers DC 444E dryer, by maintaining and servicing them as specified by section 3 of the SoW.

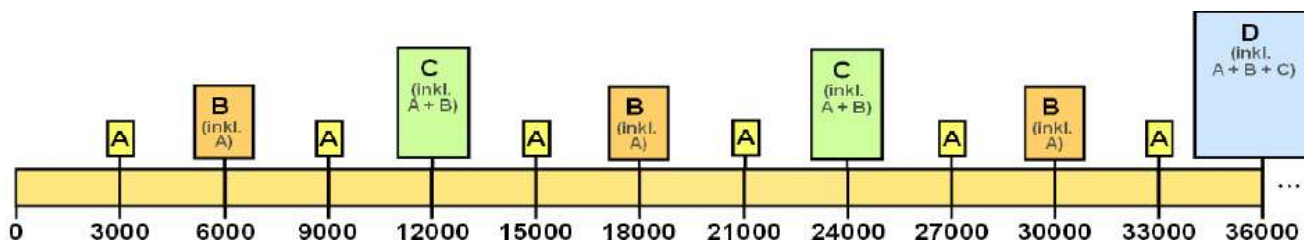
2. Objectives

Objective is to perform regular service as required to maximise availability

3. Detailed Work Description

3.1 Compressor

The service and maintenance schedules are illustrated in the pictograph below.



Keys for the Scope Table	
check /adjust	•
check /adjust/clean/lubricate/replace service parts	✓

3.1.1 Compressor -Service A (3 000 hours)	Maintenance
Cooling /cooler on air cooled equipment	✓
Control valves	✓
Drive coupling	•
Air filter , inlet filter mats	✓
Cooling fluid, fluid filters	✓
Air/oil separator cartridge and oil scavenge tube	•
Examine pipe and hose connections	•
Electrical cabinet ,cables ,cable inlets, and check terminal connections	•

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Drive motor, fan motor, fan blades, drive and fan motor bearings	✓
Regulating , switching and control elements	•
Shut down and safety functions	•
Display, warning and error functions	•
Safety valves and fittings	✓
Condensate Drain	•
Air end performance , wear, quietness, rotational direction, leak tightness	✓
3.1.2 Compressor -Service B (6 000 hours)	
Cooling /cooler on air cooled equipment	✓
Control valves	✓
Drive coupling	•
Air filter , inlet filter mats	✓
Cooling fluid, fluid filters	✓
Air/oil separator cartridge and oil scavenge tube	✓
Examine pipe and hose connections	•
Electrical cabinet ,cables ,cable inlets, and check terminal connections	•
Drive motor, fan motor, fan blades, drive and fan motor bearings	✓
Regulating , switching and control elements	•
Shut down and safety functions	•
Display, warning and error functions	•
Safety valves and fittings	•
Condensate Drain	✓
Air end performance , wear, quietness, rotational direction, leak tightness	•
3.1.3 Compressor -Service C (12 000 hours)	
Cooling /cooler on air cooled equipment	✓
Control valves	✓
Drive coupling	✓
Air filter , inlet filter mats	✓
Cooling fluid, fluid filters	✓
Air/oil separator cartridge and oil scavenge tube	✓
Examine pipe and hose connections	•
Electrical cabinet ,cables ,cable inlets, and check terminal connections	•
Drive motor, fan motor, fan blades, drive and fan motor bearings	✓

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Regulating , switching and control elements	•
Shut down and safety functions	•
Display, warning and error functions	•
Safety valves and fittings	•
Condensate Drain	✓
Air end performance , wear, quietness, rotational direction, leak tightness	•
3.1.4 Compressor -Service D (36 000 hours)	
Cooling /cooler on air cooled equipment	✓
Control valves	✓
Drive coupling	✓
Air filter , inlet filter mats	✓
Cooling fluid, fluid filters	✓
Air/oil separator cartridge and oil scavenge tube	✓
Examine pipe and hose connections	✓
Electrical cabinet ,cables ,cable inlets, and check terminal connections	•
Drive motor, fan motor, fan blades, drive and fan motor bearings	✓
Regulating , switching and control elements	•
Shut down and safety functions	•
Display, warning and error functions	•
Safety valves and fittings	•
Condensate Drain	✓
Air end performance , wear, quietness, rotational direction, leak tightness	•

3.1.5 Kaeser MOBILAIR M350 service intervals				
Maintenance Interval	Service A 250 hours	Service B 1000 hours	Service C 1500 hours	Service D 3000 hours
Engine Filter Set	✓	✓	✓	✓
Engine Oil	✓	✓	✓	✓
Compressed air treatment (optional)	✓	✓	✓	✓
Compressed Oil	•	✓	•	✓
Dirt Trap	•	✓	•	✓
Oil Separator Cartridge	•	✓	•	✓
Anti-Freeze	•	•	✓	✓
Engine Belt	•	•	✓	✓

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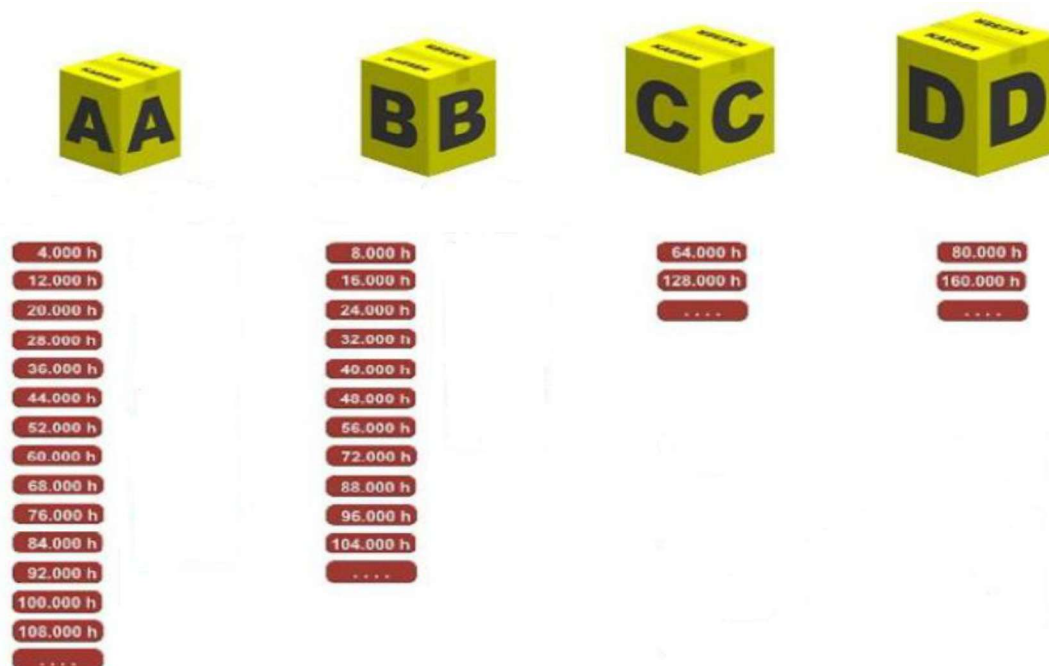
3.2 Regular maintenance Task –Screw compressor

The maintenance intervals given are those recommended for KAESER original components with average operating conditions.

	Maintenance
3.2.1 Weekly Maintenance Scope for compressors	
Check all fluid levels - top up if required	✓
Check Air filter Maintenance indicator	•
Check the Radiator - clean if required	✓
Check Unit for any leaks	•
Check general condition of units	•

3.3 Dryers

The service and maintenance schedule are illustrated in the pictograph



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3.3.1 Keys for the Scope Table	
check /adjust	•
check /adjust/clean/lubricate/replace service parts	✓

3.3.2 Dryers- Service A (4 000 hours)	Maintenance
Filter element	✓
Insulating	•
Compressor air -inlet , outlet and dew point temperature	•
Mufflers	✓
Heat exchanger	•
Valves	✓
Condensate drain	✓
Refrigerant system, refrigerant condenser	•
Refrigerant leakage test	•
Fan motor	•
Protective grille	•
Regulating switching and control elements	✓
Shutdown and safety functions	•
Display, warming and error functions	•
Separator, dirt trap vessel	✓
Electrical cabinet, cables, cable inlets and check terminal connections	•
3.3.3 Dryers- Service B (8 000 hours)	
Filter element	✓
Insulating	•
Compressor air -inlet , outlet and dew point temperature	•
Mufflers	✓
Heat exchanger	•
Valves	✓
Condensate drain	✓
Refrigerant system, refrigerant condenser	•
Refrigerant leakage test	•
Fan motor	•

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Protective grille	•
Regulating switching and control elements	✓
Shutdown and safety functions	•
Display, warning and error functions	•
Separator, dirt trap vessel	✓
Electrical cabinet, cables, cable inlets and check terminal connections	•
3.3.4 Dryers- Service C (64 000 hours)	
Filter element	✓
Drying medium	✓
Insulating	•
Compressor air -inlet , outlet and dew point temperature	•
Mufflers	✓
Heat exchanger	•
Valves	✓
Condensate drain	✓
Refrigerant system, refrigerant condenser	•
Refrigerant leakage test	•
Fan motor	•
Protective grille	•
Regulating switching and control elements	✓
Shutdown and safety functions	•
Display, warning and error functions	•
Separator, dirt trap vessel	✓
Electrical cabinet, cables, cable inlets and check terminal connections	•
3.3.5 Dryers- Service D (80 000 hours)	
Filter element	✓
Drying medium	✓
Insulating	•
Compressor air -inlet , outlet and dew point temperature	•
Mufflers	✓
Heat exchanger	•
Valves	✓
Condensate drain	✓

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Refrigerant system, refrigerant condenser	•
Refrigerant leakage test	•
Fan motor	•
Protective grille	•
Regulating switching and control elements	✓
Shutdown and safety functions	•
Display, warning and error functions	•
Separator, dirt trap vessel	✓
Electrical cabinet, cables, cable inlets and check terminal connections	•

3.3.6 Membrane Air Dryer				
Maintenance Interval	Service A 250 hours	Service B 1000 hours	Service C 1500 hours	Service D 3000 hours
Pre-Filters	✓	✓	✓	✓
Condensate Drains	✓	✓	✓	✓
Membrane Filter Cartridge	✓	✓	✓	✓
Compressed Oil	•	✓	•	✓
	•	✓	•	✓
	•	✓	•	✓

3.3.7 Weekly Maintenance Scope for Dryers (Eskom Internal)	Maintenance
Check function of Eco Drain	•
Check function of DHS valves	•
Check differential pressure gauges on air filter	•
Check condenser of refrigerant unit –clean if required	•
Check dew point on refrigerant unit	•
Check general condition of units	•

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4. Additional

- Assure that QCP's is in place
- Monthly inspection report clearly indicating condition and performance of each individual compressor and drier as well as air quality and quantity at compressor outlet in table as well as trend format.
- Services completed for previous month as well as pending services for following month.
- Ensure that the Kendal compressed air supply system operates at the peak of its performance regarding operational reliability, efficiency, air quality and cost-effectiveness at all times for the duration of the contract
- Ensure full service and performance history are being kept on all machines.
- Safe disposal of all waste materials, spare parts and fluids.
- All renewable spare parts (e.g. compressor air-ends, motor, cooler & controller etc.) are included.
- Labour including travelling costs for the complete scope of services.
- Call-out standby 24/7 are included. Reaction time for technician in case of emergency to be on site within 1 hour otherwise within 3 hours on site.
- Preparation for statutory testing with Kendal 3rd party inspector to be included.
- Due to extremely dusty conditions at 0m level turbine house, inlet filters to be replaced every 2000 hrs and not 3000hrs.

5. Acceptance

Name	Designation
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Boy Maredi	Outside Plant Maintenance Supervisor
Prisca Mavimbela	Turbine Maintenance Manager
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6. Revisions

Date	Rev	Compiler
August 2017	00	Hasie Haasbroek
September 2025	01	Seshego Mmola

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