

Medical Gas Pipeline System PPM Inspection Report for:

Test

25-Aug-22



Executive Summary

BeaconMedæs Service Technician Praveen Kumar tested the Medical Gas Pipeline System indicated by this report in accordance with HTM02-01 Part B section 10 (Maintenance) and/or accordance with the facilities own specification (where requested) and other applicable standards or agencies. The tests performed on this system were found to be within test specifications unless otherwise noted. The results, dates and locations of the tests performed and specific data on each test can be found on the Test Summary pages.

The testing of this system may include all or part of the tests offered by BeaconMedæs. Only the tests indicated by the summary and data pages were performed on the dates indicated. The results of the tests reported represent BeaconMedæs findings on the dates and locations indicated by the report forms only. System components include:

1. Air System : 1 pcs
2. Outlet : 5 pcs



Informational Comments

The following comments are for informational purposes only and do not affect the overall code compliance of medical gas systems/components at this facility.

Count	Date	Logged By	Text
1	[REDACTED]	Praveen Kumar	Nothing enabled

Deficiencies

Outlet

Test Date	Building Location	Product Description	Notes
[REDACTED]	Building 1 : Floor 1	Outlet: GEM10: Oxygen: BS: BeaconMedæs: O2 [Asset #: O2]	Outlet does not leak failed
[REDACTED]	Building 1 : Floor 1	Outlet: GEM10: Oxygen: BS: BeaconMedæs: O2 [Asset #: O2]	Outlet does not leak failed

Additional Deficiencies

Count	Date	Logged By	Text
1	[REDACTED]	Praveen Kumar	Comment 1 : Deficiency enabled



Inspection Report

Test Date: [REDACTED]

Air System: Oil Lub Screw: Medical: 7.5 Hp / 5.5 KW: Triplex: BeaconMedæs: 4233600592, mAIR-GTF4-722-HTM02-01, 4 Bar, Atlas Copco GA5, dMED35 MK2-3, s/n API_dd-mmm-yy [Asset #: 4233600592, mAIR-GTF4-722-HTM02-01, 4 Bar, Atlas Copco GA5, dMED35 MK2-3]

Location: Building 1 : Floor 1 : Plant Room

00. Dynamic Risk Assessment

Data Point	Result	Device Notes
Risk Assessment	I am OK to commence works	Todd Hartrick contact us for support on their Lab Air "Our Class 1 Laboratory Air Compressor system seems to have suffered some software damage. The computer screen on the main unit now shows the following error message; [No System Found in the Panel] Please update the panel using Recovery Mode in Programming Software". After a few phone calls and photos a site visit to reprogram was made. [REDACTED]

01. General

Data Point	Result	Device Notes
Plant Room Condition	Pass	
Plant access	Pass	
Plant fixing and bonding	Pass	
Compressor manufacturer	Atlas Copco	
Dryer manufacturer	BeaconMedæs	
Relevant staff advised of system test and likely alarms	Pass	
ERM is online and able to supply air to the MGPS	Pass	
Safety valve(s) in date	Pass	
Receiver(s) condition is good	Pass	
Dryer condition is good and operates correctly	Pass	
Gauge(s) operate correctly	Pass	
Condition of electrical components are acceptable	Pass	
Isolate each compressor and check running conditions are acceptable	Pass	
Compressor(s) are free from oil leaks	Pass	
Alarms and indications operate correctly	Pass	
Backup pressure switch operates correctly	Pass	
Filters are clean and in date	Pass	
Filter auto drains are operating correctly	Pass	
Equipment status is online	Pass	

**02.1 Compressor 1**

Data Point	Result	Device Notes
Compressor s/n	Compressor_sn_123456	
Compressor run hours	1,608.00	
Cut in pressure (bar)	8.00	
Cut out pressure (bar)	10.00	
Oil level check	Pass	

02.2 Compressor 2

Data Point	Result	Device Notes
Component Installed	Yes	
Oil level check	Pass	

Compressor 3

Data Point	Result	Device Notes
Oil level check	Pass	

Compressor 4

Data Point	Result	Device Notes
Component installed	Yes	
Oil level check	Pass	

Description of Work

Label	Description
Risk Assessment	Consider the following list as a minimum when carry out this assessment: <ul style="list-style-type: none">• General Site Safety Condition• Hot Works• Housekeeping• Lighting• Noise Levels• Public Safety• Steps and Ladders• Working at Height
Plant Room Condition	Plant room signage is visible. The room is tidy and free from obstructions with satisfactory ventilation, lighting and ambient temperature.
Plant access	Access to plant is adequate for user operation and maintenance





Plant fixing and bonding	Pump fixing bolts are tight and flexible pipework is in good condition with satisfactory earth bonding
Relevant staff advised of system test and likely alarms	Staff at switchboard or permanently manned areas have been informed that the medical gas system is about to be tested and that alarms are likely
ERM is online and able to supply air to the MGPS	The ERM online isolation valve is open and the manifold has open cylinders with the bank regulators (if fitted) also open. The ERM is in working order and has been inspected prior to testing the Air Plant system.
Safety valve(s) in date	SRV is not older than 5 years
Receiver(s) condition is good	Receiver(s) external condition is good
Dryer condition is good and operates correctly	Condition is good with no visible signs of damage or rust. The dryer cycles automatically and manually and the dewpoint level is good. There are no leaks.
Gauge(s) operate correctly	All gauges are functioning correctly and are in good working order. All pressure readings are correct.
Condition of electrical components are acceptable	Check the equipment for any visible external damage, deterioration or overheating
Isolate each compressor and check running conditions are acceptable	Fixing bolts, anti-vibration mounts, exhaust, motor, drive couplings/belts, cooling fans, air intake, filters, silencers, oil level and bearings are in good working order. Adjust and clean as necessary.
Compressor(s) are free from oil leaks	Examine for obvious signs of oil leaks. Where possible use site spill kits to clean up.
Alarms and indications operate correctly	The equipment indicates the correct lamps/alarms during the operational system tests
Plant run hours	Record run hours as indicated on plant central controller (if applicable)
Pressure switch fault level (bar)	Test the operation of the "pressure fault" switch and alarms by creating a small leak in the line to the switch. Record the pressure which this alarm occurs and adjust as necessary. NOTE in practice this might not be suitable to test in which case operation of the switch should be confirmed without measuring the pressure.
Backup pressure switch operates correctly	If the plant is fitted with a back up pressure switch continue to drain receiver and check the switch operates and record details
Filters are clean and in date	Check the differential pressure gauge to see if the filters are badly clogged. Generally the filters should be changed annually.
Filter auto drains are operating correctly	Check the auto drains are functioning correctly without leaks and are being drained away adequately
Equipment status is online	The equipment is integrated back online and set up correctly for operation
Atmospheric dew point level	If applicabl. Minimum value acc HTM2022 should be -26, acc HTM02-01 should be -46C
Compressor s/n	Serial number
Compressor run hours	Record run hours as indicated on compressor controller (if applicable)
Cut in pressure (bar)	Open the receiver drain valve(s) and record details
Cut out pressure (bar)	Close the receiver drain valve(s) and record details
Running current loaded (A)	Open the receiver drain valve(s) and record details
Running current unloaded (A)	Open the receiver drain valve(s) and record details
Oil level check	Check oil level
Component Installed	If you put here "No", all measurement points underneath will be hidden and ignored in the report.
Compressor s/n	Serial number
Cut in pressure (bar)	Open the receiver drain valve(s) and record details
Cut out pressure (bar)	Close the receiver drain valve(s) and record details
Running current loaded (A)	Open the receiver drain valve(s) and record details
Oil level check	Check oil level
Component installed	If you put here "No", all measurement points underneath will be hidden and ignored in the report.
Compressor s/n	Serial number
Compressor run hours	Record run hours as indicated on compressor controller (if applicable)
Cut in pressure (bar)	Open the receiver drain valve(s) and record details
Cut out pressure (bar)	Close the receiver drain valve(s) and record details



Running current loaded (A)	Open the receiver drain valve(s) and record details
Running current unloaded (A)	Open the receiver drain valve(s) and record details
Oil level check	Check oil level
Component installed	If you put here "No", all measurement points underneath will be hidden and ignored in the report.
Compressor s/n	e.g. AII12345
Compressor run hours	Record run hours as indicated on compressor controller (if applicable)
Cut in pressure (bar)	Open the receiver drain valve(s) and record details
Cut out pressure (bar)	Close the receiver drain valve(s) and record details
Running current loaded (A)	Open the receiver drain valve(s) and record details
Running current unloaded (A)	Open the receiver drain valve(s) and record details
Oil level check	Check oil level
Oil temperature	
Component installed	If you put here "No", all measurement points underneath will be hidden and ignored in the report.
Component installed	If you put here "No", all measurement points underneath will be hidden and ignored in the report.



OUTLET

#	Test Date	Location	Product	Risk assessment	Outlet condition is acceptable	Mechanical function is acceptable	Gas specificy is correct	Outlet does not leak	Flow and pressure drop is acceptable	Flow at 1kPa	Flow at 2kPa	Flow at 4kPa	
1	[REDACTED]	Building 1 : Floor 1	Outlet: GEM10: Oxygen: BS: BeaconMedæs: O2 [Asset #: O2]	I am OK to commence works	Pass	Pass	Pass	Pass	Pass				
2	[REDACTED]	Building 1 : Floor 1	Outlet: GEM10: Oxygen: BS: BeaconMedæs: O2 [Asset #: O2]	I am OK to commence works	Pass	Pass	Pass	Pass	Pass				
3	[REDACTED]	Building 1 : Floor 1	Outlet: GEM10: Oxygen: BS: BeaconMedæs: O2 [Asset #: O2]	I am OK to commence works	Pass	Pass	Pass	Fail	Pass				
4	[REDACTED]	Building 1 : Floor 1	Outlet: GEM10: Oxygen: BS: BeaconMedæs: O2 [Asset #: O2]	I am OK to commence works	Pass	Pass	Pass	Pass	Pass				
5	[REDACTED]	Building 1 : Floor 1	Outlet: GEM10: Oxygen: BS: BeaconMedæs: O2 [Asset #: O2]	I am OK to commence works	Pass	Pass	Pass	Fail	Pass				

Description of Work

Label	Description
Risk assessment	Consider the following list as a minimum when carry out this assesment: <ul style="list-style-type: none"> • General Site Safety Condition • Hot Works • Housekeeping • Lighting • Noise Levels • Public Safety • Steps and Ladders • Working at Height
Outlet condition is acceptable	Examine terminal unit for obvious leaks or damage
Mechanical function is acceptable	Probe operates and enages/disengages correctly and does not swivel (wall type). Outlet does not stick or jam and operates smoothly.
Gas specificy is correct	Insert a blank probe and check gas specificy is correct and no cross connections are present
Outlet does not leak	Check the outlet does not leak
Flow and pressure drop is acceptable	Using a calibrated test gun check the terminal unit perfomance
Flow at 1kPa	



Comments
Outlet does not leak : failed.
<p>An error has occurred while processing HtmlTextBox ":" 'Found' is an unexpected token. The expected token is '='. Line 1, position 300.</p>
Outlet does not leak : failed.



Image	Asset
	Outlet: GEM10: Oxygen: BS: BeaconMedæs: O2 [Asset #: O2]

Authorization to carry out work with/without an order number.

Notes: Customer will agree to supply Atlas Copco with a valid order number or payment for non-account holders for the actual time spent, traveling and parts used during the breakdown intervention by next working day.

Customer Confirmation

Signed by NA
(Being duly authorized to sign on behalf of the customer)

Service Engineer Confirmation

Signed by Praveen Kumar

Comments

An error has occurred while processing HtmlTextBox 'htmlTextBox4':
'Found' is an unexpected token. The expected token is '='. Line 1, position 239.



Test

Bautersemstraat

