

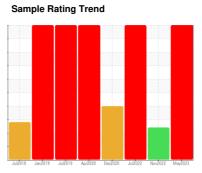
PROBLEM SUMMARY

106 Mill

#1 COIL BOX COMPRESSOR LUBE (PLS084)

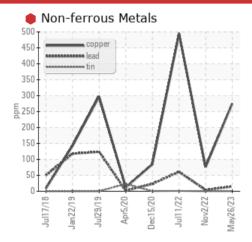
Bearing Lube

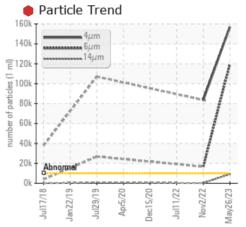
R&O OIL ISO 68 (--- GAL)

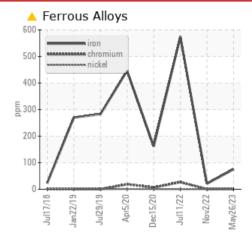




COMPONENT CONDITION SUMMARY







RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Customer Id: ALGSSM Sample No.: WC0714522 Lab Number: 02561764 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	SEVERE	SEVERE				
Iron	ppm	ASTM D5185(m)	>120	<u>^</u> 75	21	574				
Copper	ppm	ASTM D5185(m)	>17	275	76	495				
Particles >4µm		ASTM D7647	>10000	156877	83598					
Particles >6µm		ASTM D7647	>2500	119666	<u> </u>					
Particles >14μm		ASTM D7647	>160	9160	<u>^</u> 219					
Particles >21μm		ASTM D7647	>40	727	38					
Particles >38µm		ASTM D7647	>10	<u>^</u> 22	2					
Oil Cleanliness		ISO 4406 (c)	>20/18/14	2 4/24/20	2 4/21/15					

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS

ISO



02 Nov 2022 Diag: Kevin Marson

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) R&O OIL ISO 68. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Oil Cleanliness are severely high. Particles >4µm are severely high. Particles >6µm are abnormally high. Particles >14µm are notably high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR



11 Jul 2022 Diag: Kevin Marson

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please provide more complete information on your next sample. Aluminum, chromium, copper, iron and lead ppm levels are severe. Bearing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



15 Dec 2020 Diag: Kevin Marson

WEAR



We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Aluminum, chromium and iron ppm levels are abnormal. Copper and lead ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





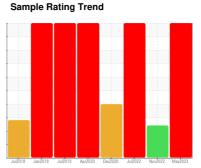
OIL ANALYSIS REPORT

106 Mill

#1 COIL BOX COMPRESSOR LUBE (PLS084)

Bearing Lube

R&O OIL ISO 68 (--- GAL)





DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Copper ppm levels are severe. Iron ppm levels are noted. Bearing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

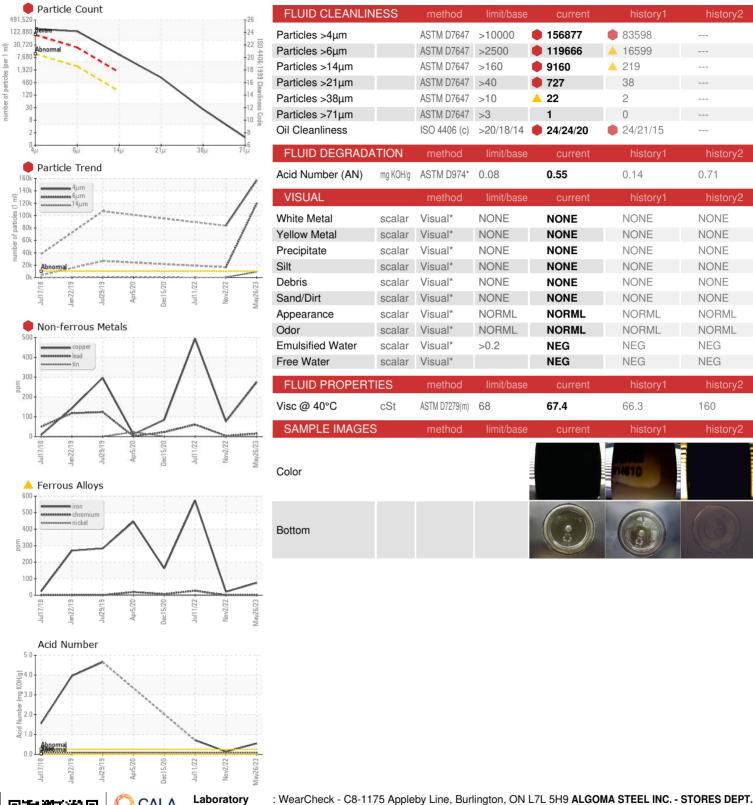
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

	2022 May2023	
SAMPLE INFORMATION method limit/base current	history1	history2
Sample Number Client Info WC0714522	WC0714610	WC0496369
Sample Date Client Info 26 May 2023	3 02 Nov 2022	11 Jul 2022
Machine Age hrs Client Info 0	0	0
Oil Age hrs Client Info 0	0	0
Oil Changed Client Info N/A	N/A	N/A
Sample Status SEVERE	SEVERE	SEVERE
CONTAMINATION method limit/base current	history1	history2
Water WC Method >0.2 NEG	NEG	NEG
WEAR METALS method limit/base current	history1	history2
PQ ASTM D8184* 71	0	350
Iron ppm ASTM D5185(m) >120 ▲ 75	21	574
Chromium ppm ASTM D5185(m) >5 1	<1	2 7
Nickel ppm ASTM D5185(m) >20 0	0	<1
Titanium ppm ASTM D5185(m) 0	0	1
Silver ppm ASTM D5185(m) 0	0	0
Aluminum ppm ASTM D5185(m) >4 <1	<1	1 5
Lead ppm ASTM D5185(m) >30 15	4	6 1
Copper ppm ASTM D5185(m) >17 ■ 275	76	495
Tin ppm ASTM D5185(m) >10 0	<1	1
Antimony ppm ASTM D5185(m) 0	<1	0
Vanadium ppm ASTM D5185(m) 0	0	0
Beryllium ppm ASTM D5185(m) 0	0	0
Cadmium ppm ASTM D5185(m) 0	0	0
ADDITIVES method limit/base current	history1	history2
Boron ppm ASTM D5185(m) 5 0	1	<1
Barium ppm ASTM D5185(m) 5 0	0	<1
Molybdenum ppm ASTM D5185(m) 5 0	0	0
Manganese ppm ASTM D5185(m) <1	<1	6
MagnesiumppmASTM D5185(m)50	0	2
Calcium ppm ASTM D5185(m) 5 0	<1	11
Phosphorus ppm ASTM D5185(m) 100 67	49	898
Zinc ppm ASTM D5185(m) 25 12	23	42
	184	41
Sulfur ppm ASTM D5185(m) 1500 109		4
Sulfur ppm ASTM D5185(m) 1500 109 Lithium ppm ASTM D5185(m) < 1 <1	<1	<1
	<1 history1	<1 history2
Lithium ppm ASTM D5185(m) <1		
Lithium ppm ASTM D5185(m) <1	history1	history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WC0714522

: 02561764

Received Diagnosed : 5590805 Diagnostician

: Kevin Marson Test Package : IND 2 (Additional Tests: PrtCount, TAN Man) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (705)945-3585

301 WALLACE TERRACE

Contact: Algoma Reliability algomareliability@algoma.com

SAULT STE MARIE, ON

: 05 Jun 2023

: 07 Jun 2023

CA P6C 1K8

T: (705)206-1059