

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

C2 Component

**Screw Compressor** 

**REFRIG COMP OIL ISO 68 (--- GAL)** 

#### DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) REFRIG COMP OIL ISO 68. Please confirm.

#### Wear

All component wear rates are normal.

## Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

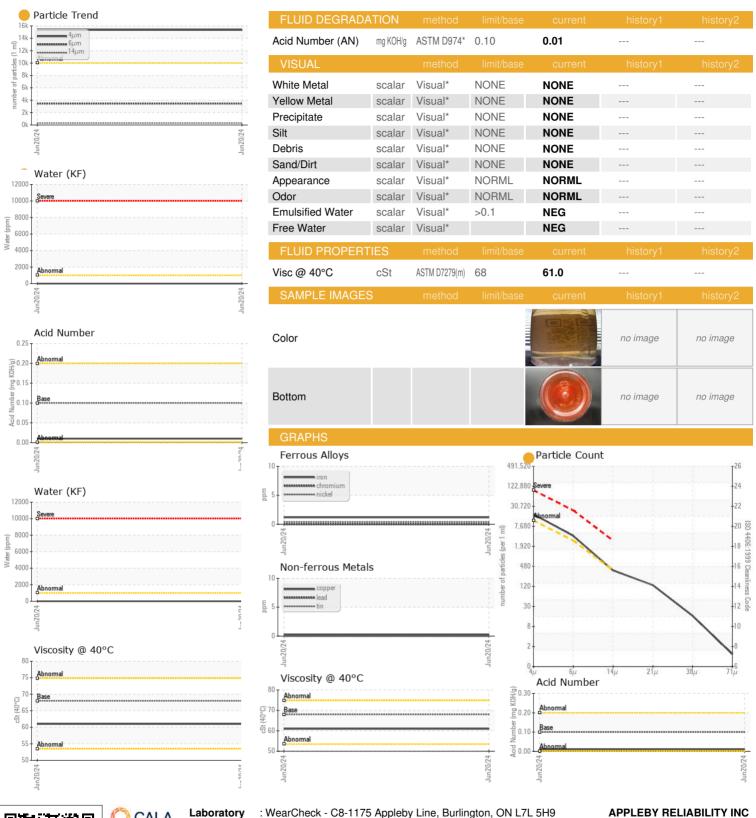
## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900474		
Sample Date		Client Info		20 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>60	1		
Chromium	ppm	ASTM D5185(m)	>4	0		
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>10	0		
Copper	ppm	ASTM D5185(m)	>30	<1		
Tin	ppm	ASTM D5185(m)	>15	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185(m)	5	•		
DOIOII	ppm	A31101 D3103(111)	5	0		
Barium	ppm	ASTM D5185(m)	5	2		
	• •	. ,				
Barium	ppm	ASTM D5185(m)	5	2		
Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m)	5	2		
Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5	2 0 0		
Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	2 0 0 <1		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 12	2 0 0 <1 <1		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 12 12	2 0 0 <1 <1 <1		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 12 12 12	2 0 0 <1 <1 <1 <1		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 12 12 12	2 0 0 <1 <1 <1 <1 <1 132		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 12 12 12 12 1000	2 0 0 <1 <1 <1 <1 132		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 12 12 12 12 1000	2 0 0 <1 <1 <1 <1 <1 132 <1	     history1	     history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 12 12 12 12 1000	2 0 0 <1 <1 <1 <1 <1 132 <1 current	     history1	     history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  METHOD  ASTM D5185(m) ASTM D5185(m)  ASTM D5185(m) ASTM D5185(m)	5 5 12 12 12 12 1000	2 0 0 <1 <1 <1 <1 132 <1 current 0	history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 12 12 12 1000 limit/base >50	2 0 0 <1 <1 <1 <1 132 <1 current 0 0	history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 12 12 12 1000 limit/base >50 >20 >0.1	2 0 0 0 <1 <1 <1 <1 132 <1 current 0 0 0 0.00	history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 12 12 12 12 1000 limit/base >50 >20 >0.1 >1000	2 0 0 <1 <1 <1 <1 132 <1 current 0 0 0 0.00 0	history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304*	5 5 12 12 12 1000 limit/base >50 >20 >0.1 >1000	2 0 0 <1 <1 <1 <1 132 <1 current 0 0 0 0.00 0	history1 history1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304*  method ASTM D7647	5 5 12 12 12 12 1000  limit/base >50 >20 >0.1 >1000  limit/base >10000	2 0 0 	history1 history1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647	5 5 12 12 12 12 1000  limit/base >50 >20 >0.1 >1000  limit/base >10000 >2500	2 0 0 <1 <1 <1 <1 132 <1 current 0 0 0 0.00 0 current	history1 history1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647 ASTM D7647	5 5 12 12 12 12 1000  limit/base >50 >20 >0.1 >1000 limit/base >10000 >2500 >320	2 0 0 0 <1 <1 <1 <1 132 <1 current 0 0 0 0 0.00 0 current 15345 3462 319	history1 history1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D6304*  ASTM D6304*  ASTM D6304*  ASTM D7647  ASTM D7647  ASTM D7647	5 5 12 12 12 12 1000  limit/base >50 >20 >0.1 >1000  limit/base >10000 >2500 >320 >80	2 0 0 0 <1 <1 <1 <1 132 <1 current 0 0 0 0.00 0 current 15345 3462 319	history1 history1	history2 history2



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02644871 Unique Number : 5802410

: WC0900474

Received : 02 Jul 2024 **Tested** : 03 Jul 2024 Diagnosed : 03 Jul 2024 - Kevin Marson

Test Package : IND 2 (Additional Tests: KF, 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.

APPLEBY RELIABILITY INC

UNIT 1 - 8250 209B STREET LANGLEY, BC CA V2Y 0J7

Contact: Doug Brougham doug@applebyreliability.com T: (778)846-1955