



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

**C5**  
 Component  
**Screw Compressor**  
 Fluid  
**REFRIG COMP OIL ISO 46 (--- 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 46. 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0900477</b>	---	---
Sample Date	Client Info			<b>20 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>60	<b>&lt;1</b>	---	---
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>30	<b>0</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

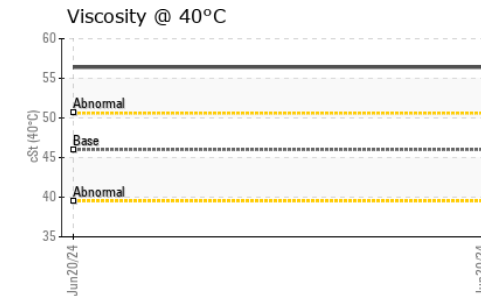
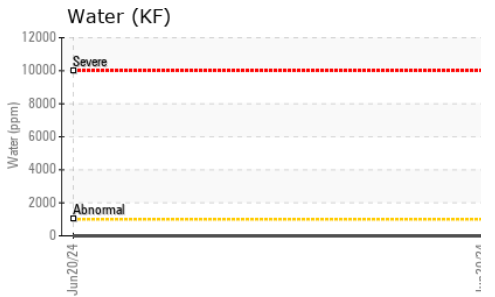
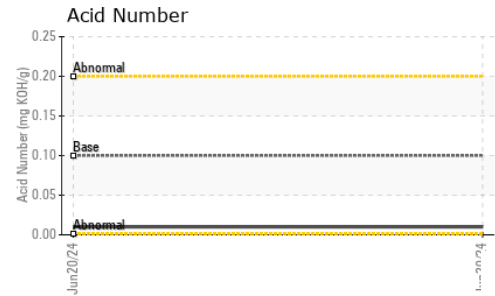
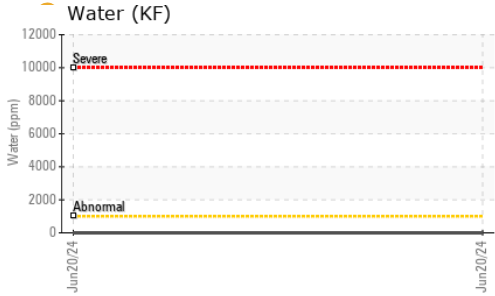
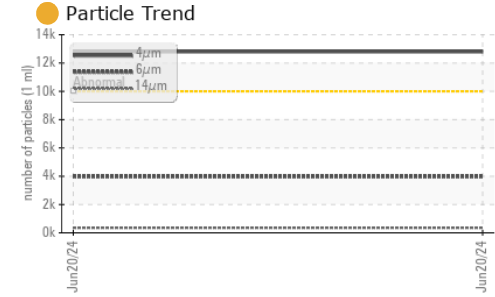
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<b>0</b>	---	---
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185(m)	12	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	12	<b>&lt;1</b>	---	---
Zinc	ppm	ASTM D5185(m)	12	<b>&lt;1</b>	---	---
Sulfur	ppm	ASTM D5185(m)	1000	<b>9</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<b>0</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304*	>0.1	<b>0.00</b>	---	---
ppm Water	ppm	ASTM D6304*	>1000	<b>0</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>12801</b>	---	---
Particles >6µm		ASTM D7647	>2500	<b>3975</b>	---	---
Particles >14µm		ASTM D7647	>320	<b>354</b>	---	---
Particles >21µm		ASTM D7647	>80	<b>104</b>	---	---
Particles >38µm		ASTM D7647	>20	<b>8</b>	---	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>21/19/16</b>	---	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	<b>0.01</b>	---	---

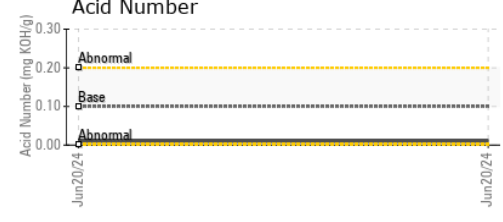
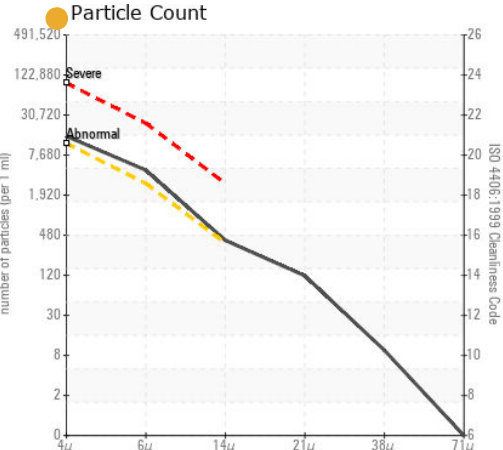
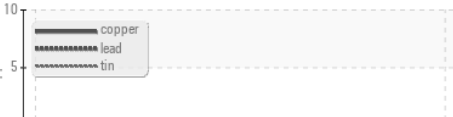
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46	<b>56.4</b>	---	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			<i>no image</i>	<i>no image</i>
Bottom			<i>no image</i>	<i>no image</i>

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0900477 **Received** : 02 Jul 2024  
**Lab Number** : **02644874** **Tested** : 03 Jul 2024  
**Unique Number** : 5802413 **Diagnosed** : 03 Jul 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount, TAN Man )

**APPLEBY RELIABILITY INC**  
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 LANGLEY, BC  
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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.