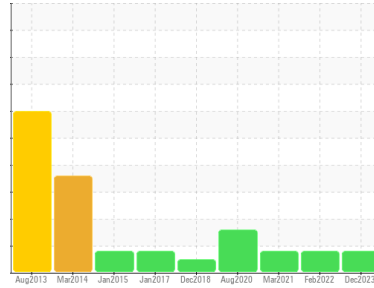




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**AIR COMP MMR (S/N 703088)**

Component  
**Air Compressor**

Fluid  
**MOBIL RARUS 827 (2 LTR)**

## DIAGNOSIS

### ▲ Recommendation

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.

### ▲ Wear

Tin ppm levels are abnormal. Piston wear is indicated.

### Contamination

There is no indication of any contamination 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0711994</b>	WC0611585	WC0537900
Sample Date	Client Info	<b>12 Dec 2023</b>	10 Feb 2022	03 Mar 2021
Machine Age	hrs	<b>2382</b>	0	1108
Oil Age	hrs	<b>0</b>	0	268
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	<b>0</b>	1	72	
Iron	ppm	ASTM D5185(m) >50	<b>6</b>	19	▲ 107
Chromium	ppm	ASTM D5185(m) >4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >10	<b>1</b>	2	9
Lead	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m) >5	▲ <b>13</b>	▲ 7	5
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	1
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Calcium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	2
Phosphorus	ppm	ASTM D5185(m)	<b>385</b>	418	377
Zinc	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	2
Sulfur	ppm	ASTM D5185(m)	<b>5</b>	4	175
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

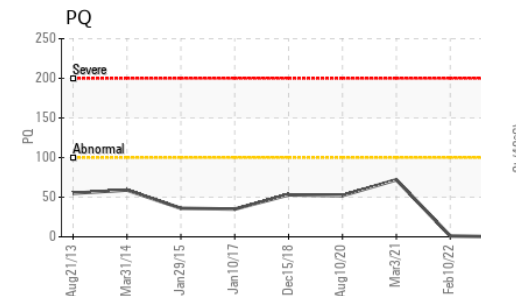
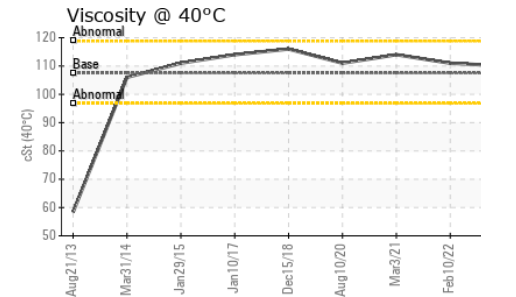
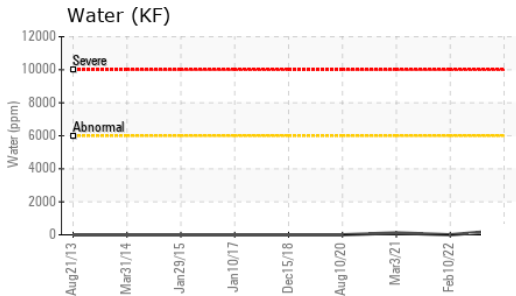
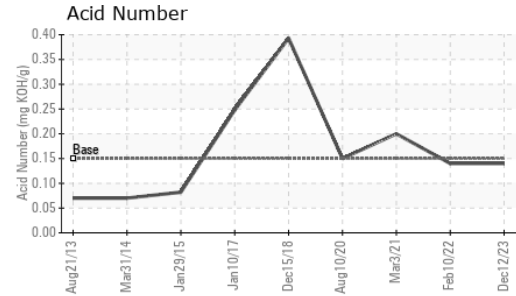
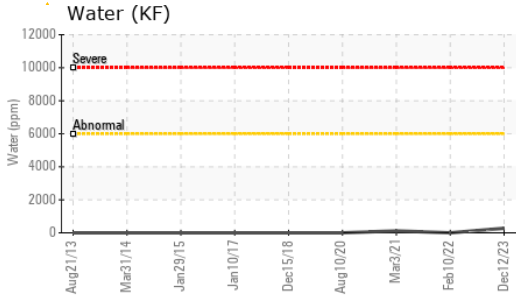
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	1	6
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	10
Water	%	ASTM D6304* >0.6	<b>0.027</b>	---	0.011
ppm Water	ppm	ASTM D6304* >6000	<b>274</b>	---	117.7

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974* 0.15	<b>0.14</b>	0.14	0.20



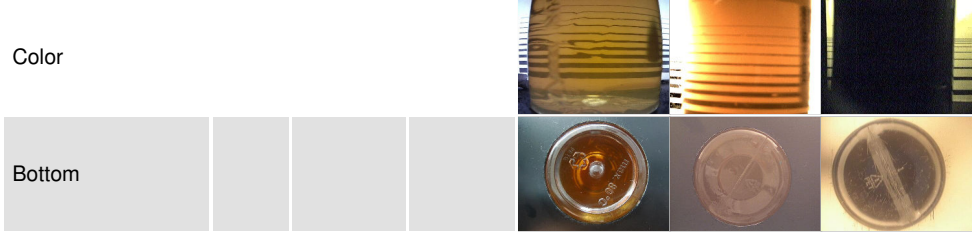
# OIL ANALYSIS REPORT



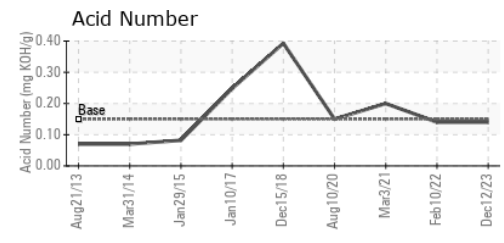
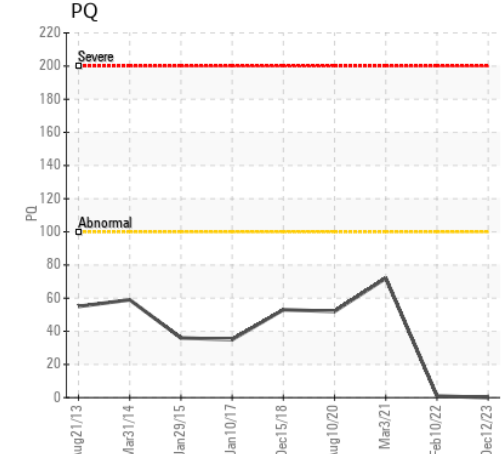
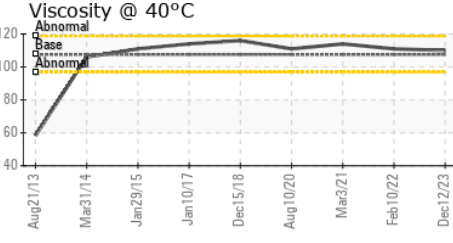
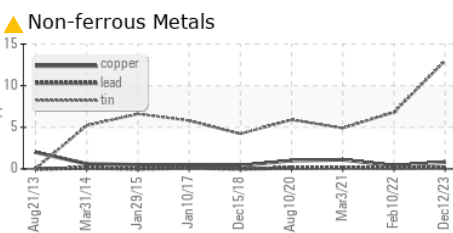
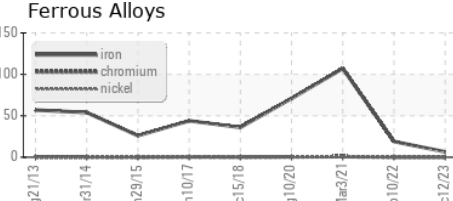
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	HAZY
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.6	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	107.5	110	114

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Canadian Coast Guard - CCGS Constable Carriere  
**Sample No.** : WC0711994 **Received** : 18 Dec 2023 867 Lakeshore Road  
**Lab Number** : 02603837 **Diagnosed** : 19 Dec 2023 Burlington, ON  
**Unique Number** : 5696922 **Diagnostician** : Kevin Marson CA L7R 4A6  
**Test Package** : MAR 2 ( Additional Tests: KF, TAN Man )  
 Contact: Chief Engineer  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. constablecarriereCE@ccgs-ngcc.gc.ca  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (705)542-2737  
 Validity of results and interpretation are based on the sample and information as supplied. F: x: