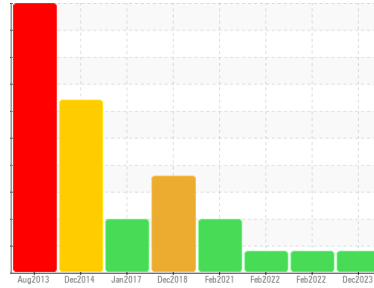




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
AIR COMP AMR (S/N 703077)
 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	WC0711993	WC0611586	WC0611584
Sample Date	Client Info	12 Dec 2023	19 Feb 2022	10 Feb 2022
Machine Age	hrs	1220	170	0
Oil Age	hrs	0	40	0
Oil Changed	Client Info	N/A	Not Changd	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	5	8	11	
Iron	ppm	ASTM D5185(m) >50	18	17	20
Chromium	ppm	ASTM D5185(m) >4	0	0	0
Nickel	ppm	ASTM D5185(m) >4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	<1	0	0
Aluminum	ppm	ASTM D5185(m) >10	<1	2	2
Lead	ppm	ASTM D5185(m) >20	0	0	0
Copper	ppm	ASTM D5185(m) >40	<1	<1	<1
Tin	ppm	ASTM D5185(m) >5	▲ 11	▲ 13	▲ 13
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)	<1	<1	<1
Barium	ppm	ASTM D5185(m)	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	0	0
Calcium	ppm	ASTM D5185(m)	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	387	397	400
Zinc	ppm	ASTM D5185(m)	<1	2	1
Sulfur	ppm	ASTM D5185(m)	5	5	4
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

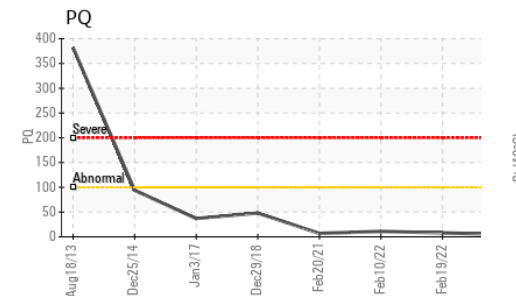
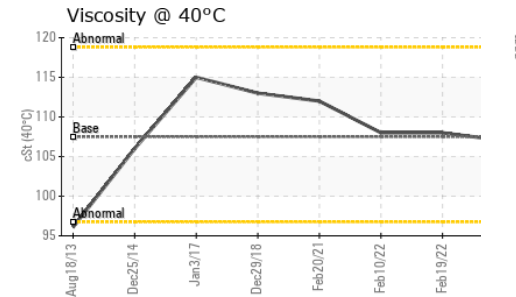
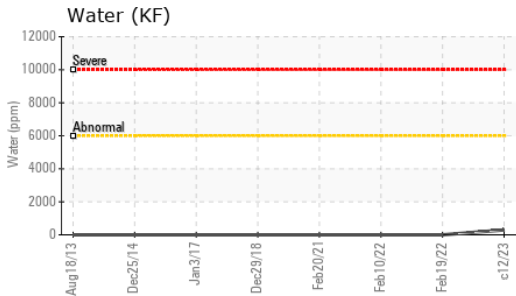
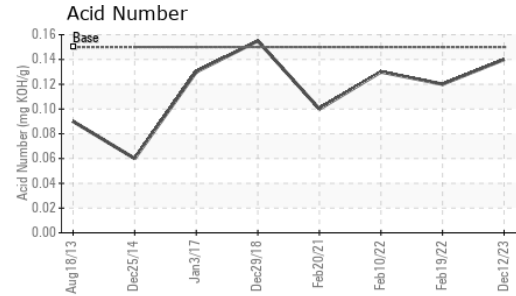
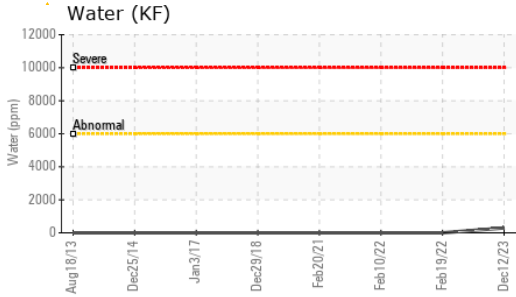
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >25	<1	<1	<1
Sodium	ppm	ASTM D5185(m)	0	0	<1
Potassium	ppm	ASTM D5185(m) >20	0	<1	<1
Water	%	ASTM D6304* >0.6	0.029	---	---
ppm Water	ppm	ASTM D6304* >6000	295	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974* 0.15	0.14	0.12	0.13



OIL ANALYSIS REPORT



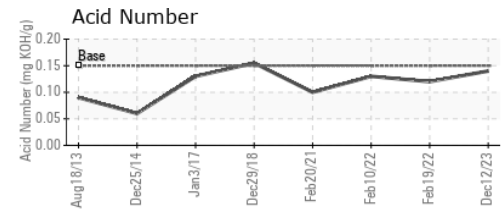
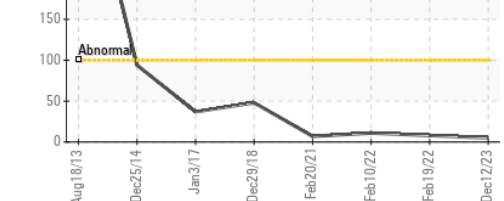
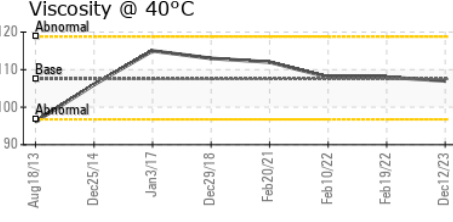
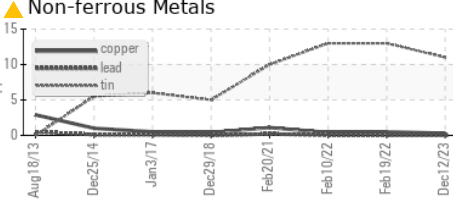
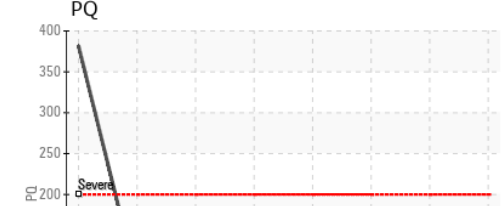
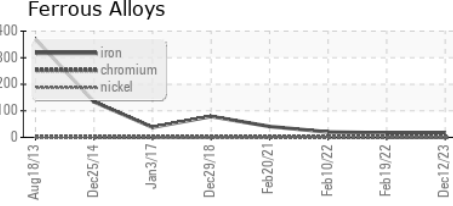
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
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	108	108

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			
Bottom			
PrtFilter	no image	no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Canadian Coast Guard - CCGS Constable Carriere
Sample No. : WC0711993 **Received** : 18 Dec 2023 867 Lakeshore Road
Lab Number : 02603836 **Diagnosed** : 19 Dec 2023 Burlington, ON
Unique Number : 5696921 **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