



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PORT GEARBOX**  
Component  
**Port Gearbox**  
Fluid  
**SHELL 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## WEAR

All component wear rates are normal.

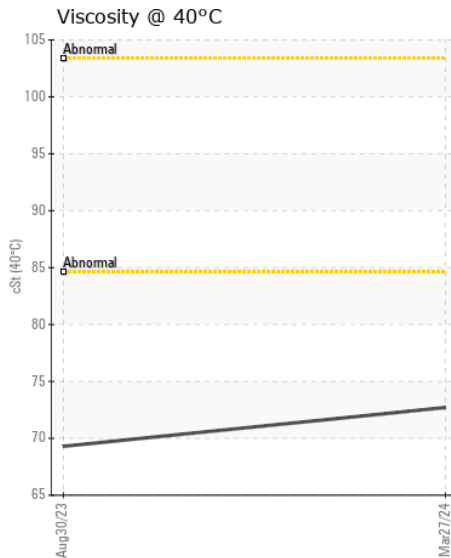
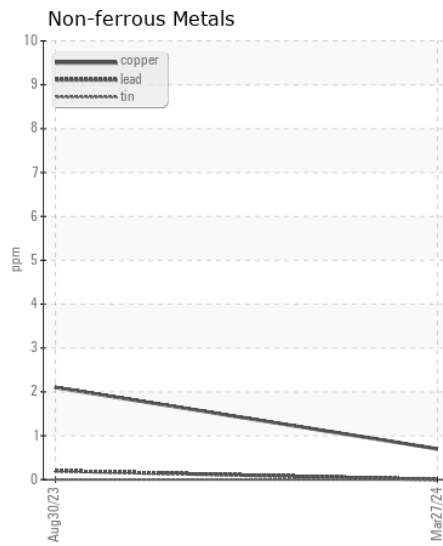
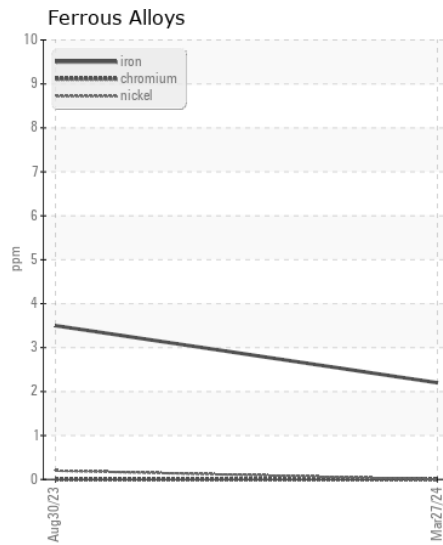
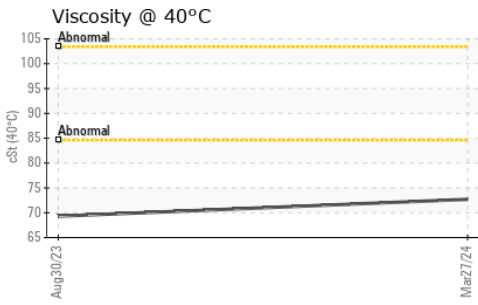
## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0916617</b>	WC0754207	---
Sample Date		Client Info		<b>27 Mar 2024</b>	30 Aug 2023	---
Machine Age	hrs	Client Info		<b>2536</b>	2258	---
Oil Age	hrs	Client Info		<b>278</b>	500	---
Filter Age	hrs	Client Info		<b>278</b>	500	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---
Iron	ppm	ASTM D5185(m)	>150	<b>2</b>	4	---
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	---
Lead	ppm	ASTM D5185(m)	>65	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>80	<b>&lt;1</b>	2	---
Tin	ppm	ASTM D5185(m)	>8	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	---
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	7	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Sodium	ppm	ASTM D5185(m)	>150	<b>2</b>	2	---
Boron	ppm	ASTM D5185(m)		<b>191</b>	178	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	10	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>13</b>	24	---
Calcium	ppm	ASTM D5185(m)		<b>2235</b>	2199	---
Phosphorus	ppm	ASTM D5185(m)		<b>1020</b>	1095	---
Zinc	ppm	ASTM D5185(m)		<b>1149</b>	1142	---
Sulfur	ppm	ASTM D5185(m)		<b>3310</b>	3250	---
Visc @ 40°C	cSt	ASTM D7279(m)		<b>72.7</b>	69.3	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0916617  
**Lab Number** : 02626177  
**Unique Number** : 5759309  
**Test Package** : MAR 1

**CANADIAN COAST GUARD**  
 CCGS CARIBOUS ISLE, 867 Lakeshore Rd  
 Burlington, ON  
 CA L7S 1A1  
 Contact: Chief Engineer  
 CaribouIsleCE@ccgs-ngcc.gc.ca  
 T: (705)942-5739

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.