



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**STBD GEARBOX**  
Component  
**Starboard 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.

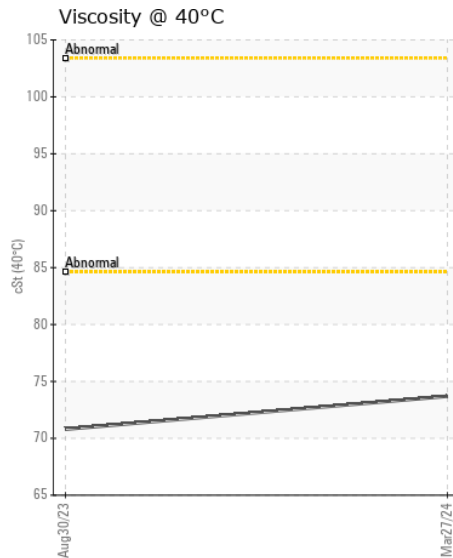
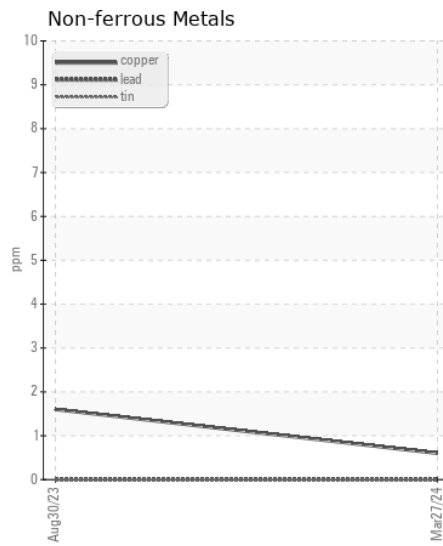
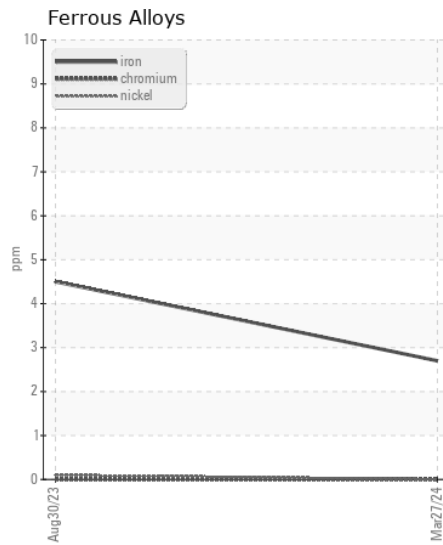
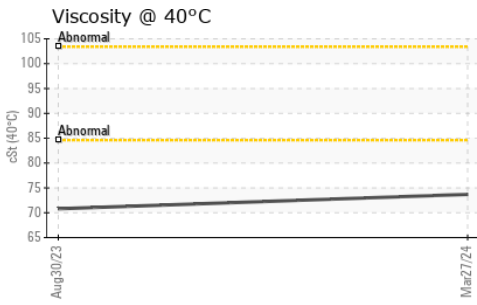
## CONTAMINATION

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>WC0916616</b>	WC0754206	---
Sample Date		Client Info		<b>27 Mar 2024</b>	30 Aug 2023	---
Machine Age	hrs	Client Info		<b>2538</b>	2268	---
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	---
<hr/>						
Iron	ppm	ASTM D5185(m)	>150	<b>3</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>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>65	<b>0</b>	0	---
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	---
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Silicon	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	---
Potassium	ppm	ASTM D5185(m)	>20	<b>8</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	---
<hr/>						
Sodium	ppm	ASTM D5185(m)	>150	<b>2</b>	2	---
Boron	ppm	ASTM D5185(m)		<b>195</b>	181	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	9	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>13</b>	25	---
Calcium	ppm	ASTM D5185(m)		<b>2212</b>	2172	---
Phosphorus	ppm	ASTM D5185(m)		<b>1038</b>	1096	---
Zinc	ppm	ASTM D5185(m)		<b>1143</b>	1126	---
Sulfur	ppm	ASTM D5185(m)		<b>3222</b>	3267	---
Visc @ 40°C	cSt	ASTM D7279(m)		<b>73.7</b>	70.8	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0916616  
**Lab Number** : 02626178  
**Unique Number** : 5759310  
**Test Package** : MAR 1

**CANADIAN COAST GUARD**  
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 Contact: Chief Engineer  
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 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.