



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MAIN ENGINE
Component
Starboard Main Engine
Fluid
SAE 15W40 (52 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

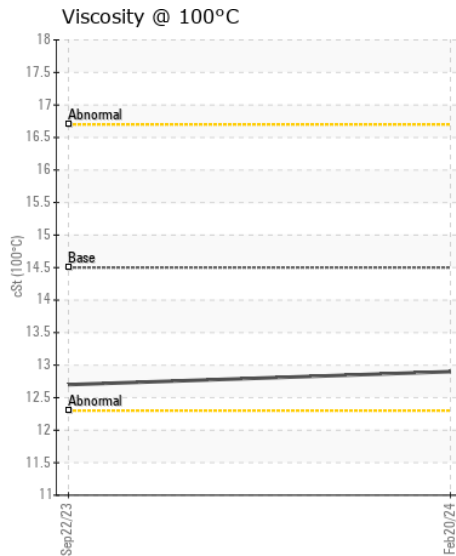
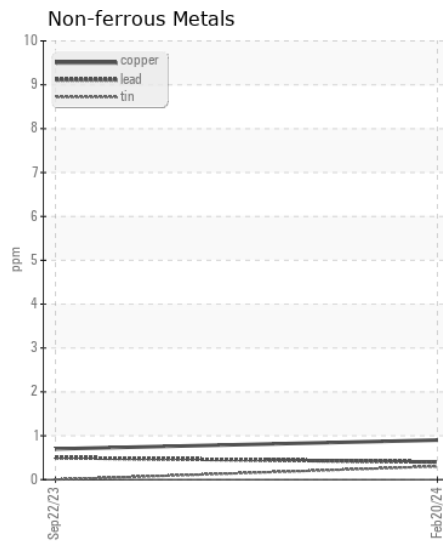
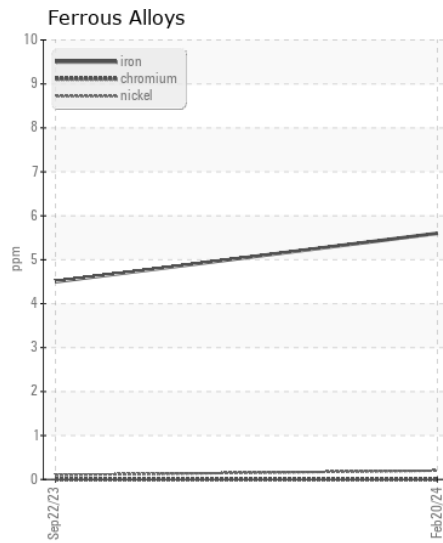
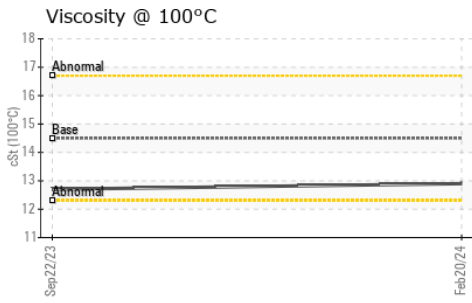
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0754192	WC0754186	---
Sample Date		Client Info		20 Feb 2024	22 Sep 2023	---
Machine Age	hrs	Client Info		2538	0	---
Oil Age	hrs	Client Info		278	0	---
Filter Age	hrs	Client Info		278	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---
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Iron	ppm	ASTM D5185(m)	>75	6	4	---
Chromium	ppm	ASTM D5185(m)	>8	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>3	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>15	1	1	---
Lead	ppm	ASTM D5185(m)	>18	<1	<1	---
Copper	ppm	ASTM D5185(m)	>80	<1	<1	---
Tin	ppm	ASTM D5185(m)	>14	<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
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Silicon	ppm	ASTM D5185(m)	>20	3	3	---
Potassium	ppm	ASTM D5185(m)	>20	7	3	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.4	6.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.6	20.8	---
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*	>0.1	NEG	NEG	---
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Sodium	ppm	ASTM D5185(m)	>57	2	2	---
Boron	ppm	ASTM D5185(m)		114	135	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		14	12	---
Calcium	ppm	ASTM D5185(m)		2079	2164	---
Phosphorus	ppm	ASTM D5185(m)		911	968	---
Zinc	ppm	ASTM D5185(m)		1077	1127	---
Sulfur	ppm	ASTM D5185(m)		2924	2867	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.8	17.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	12.9	12.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0754192
Lab Number : 02618886
Unique Number : 5735996
Test Package : MAR 1

CANADIAN COAST GUARD
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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.