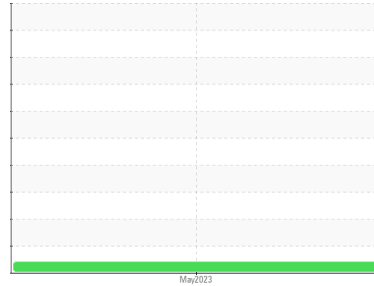


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
50043908

Component
Starboard Transmission (Manual)

Fluid
SHELL ROTELLA T4 15W40 (--- LTR)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

▲ Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WA0019678	---	---
Sample Date	Client Info	15 May 2023	---	---
Machine Age	hrs	Client Info	602	---
Oil Age	hrs	Client Info	115	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>200	11	---	---
Chromium	ppm	ASTM D5185(m)	>5	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		5	---	---
Silver	ppm	ASTM D5185(m)	>7	0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	4	---	---
Lead	ppm	ASTM D5185(m)	>45	3	---	---
Copper	ppm	ASTM D5185(m)	>225	25	---	---
Tin	ppm	ASTM D5185(m)	>10	<1	---	---
Antimony	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		<1	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)		149	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		10	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		213	---	---
Calcium	ppm	ASTM D5185(m)		2092	---	---
Phosphorus	ppm	ASTM D5185(m)		974	---	---
Zinc	ppm	ASTM D5185(m)		1031	---	---
Sulfur	ppm	ASTM D5185(m)		3544	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

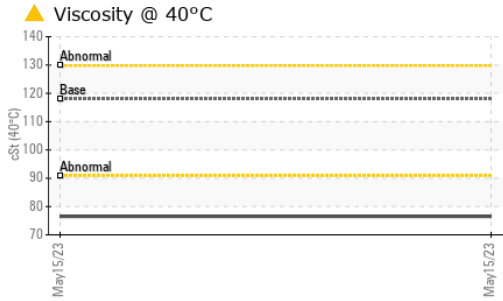
CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>125	3	---	---
Sodium	ppm	ASTM D5185(m)		4	---	---
Potassium	ppm	ASTM D5185(m)	>20	4	---	---

VISUAL

method	limit/base	current	history1	history2		
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

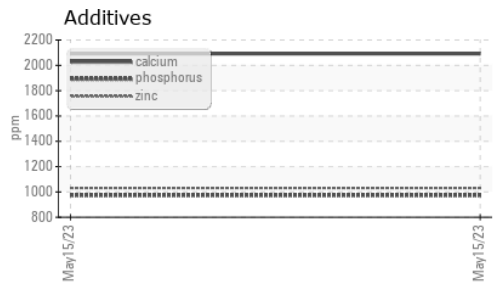
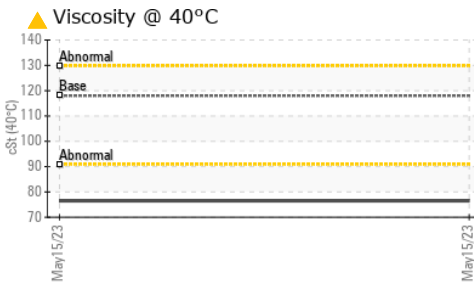
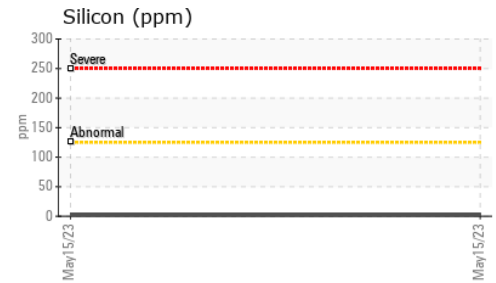
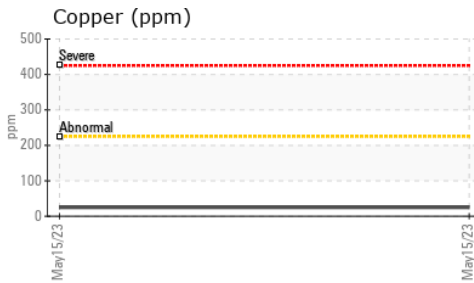
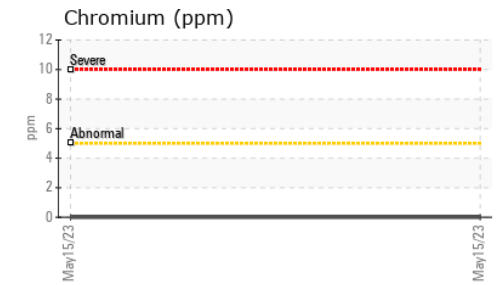
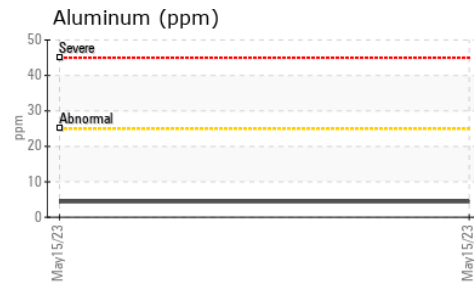
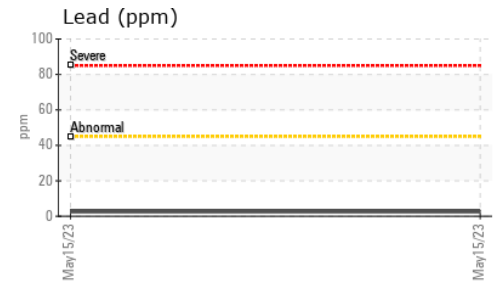
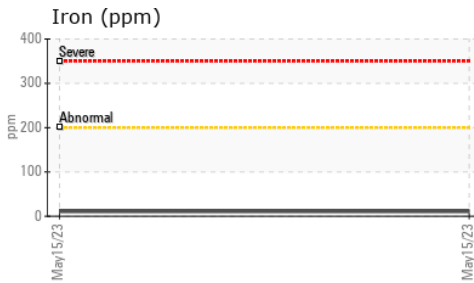
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 76.5	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0019678 **Received** : 23 May 2023
Lab Number : 02559029 **Diagnosed** : 24 May 2023
Unique Number : 5580069 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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.

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