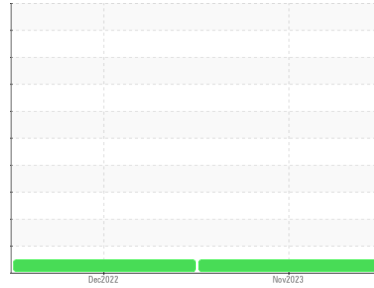


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
512100609

Component
Starboard Diesel Engine

Fluid
MOBIL DELVAC 1200 SP15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WA0014746	WA0014761	---
Sample Date	Client Info			25 Nov 2023	14 Dec 2022	---
Machine Age	kms	Client Info		1133	932	---
Oil Age	kms	Client Info		188	162	---
Oil Changed	Client Info			Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

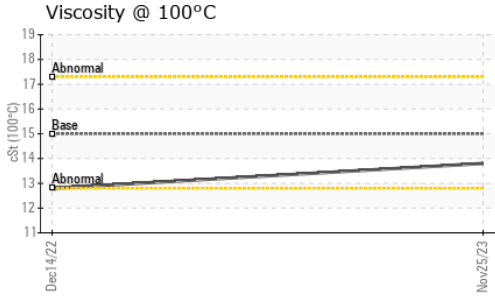
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	7	6	---
Chromium	ppm	ASTM D5185(m)	>20	<1	0	---
Nickel	ppm	ASTM D5185(m)	>4	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	<1	0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	1	---
Lead	ppm	ASTM D5185(m)	>40	<1	0	---
Copper	ppm	ASTM D5185(m)	>330	2	2	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		38	42	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		44	38	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		546	493	---
Calcium	ppm	ASTM D5185(m)		1824	1791	---
Phosphorus	ppm	ASTM D5185(m)		766	797	---
Zinc	ppm	ASTM D5185(m)		940	853	---
Sulfur	ppm	ASTM D5185(m)		2076	2101	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	4	---
Sodium	ppm	ASTM D5185(m)		3	3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---

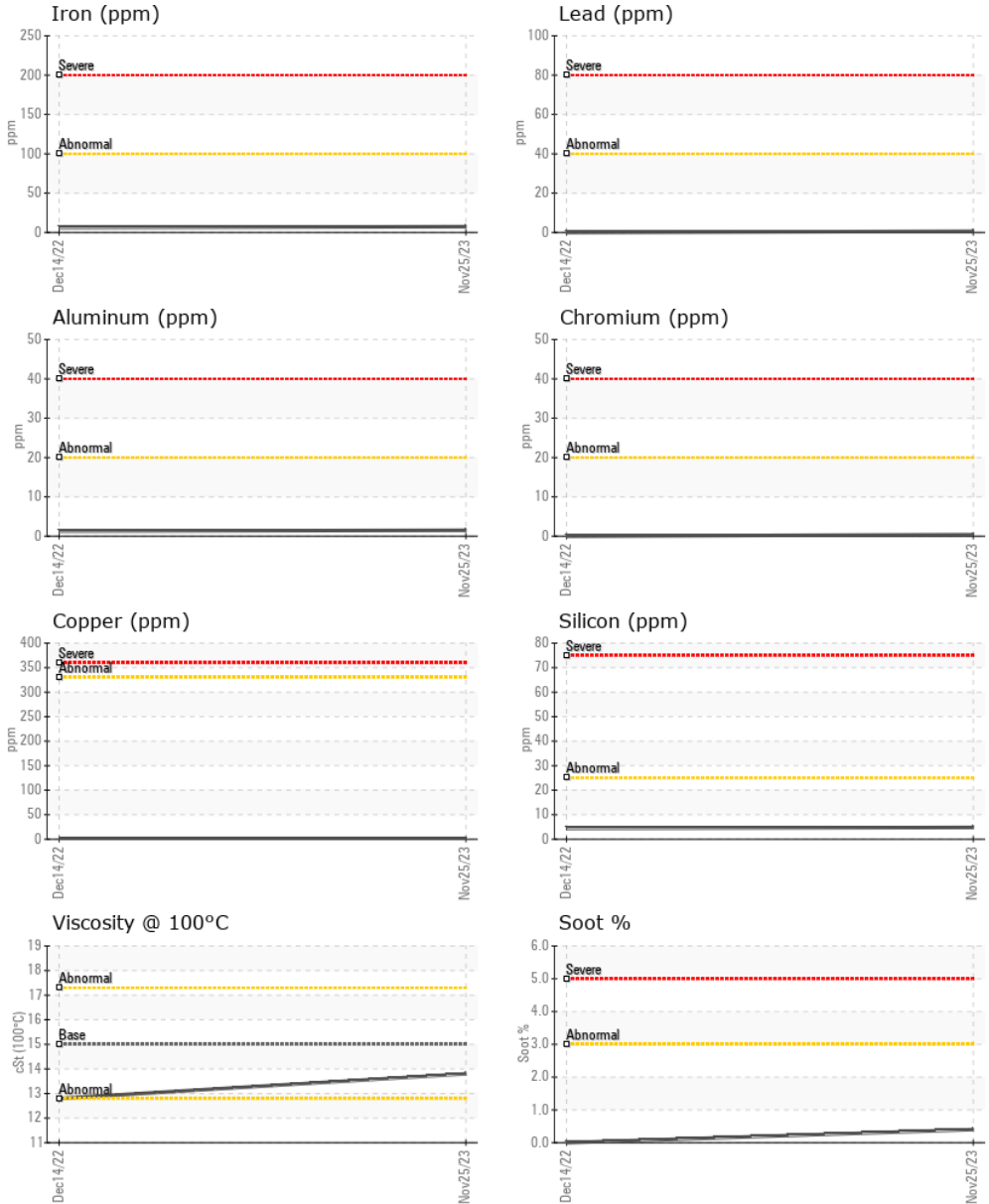
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.5	7.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.1	24.0	---

OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	23.5	22.1	---
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.8	12.8	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0014746
Lab Number : 02601411
Unique Number : 5694496
Test Package : MOB 1

CANADIAN COAST GUARD
 NGSS BAIE DE PLAISANCE, 1-264 CHEMIN DU QUAI
 CAP-AUX-MEULES, QC
 CA G4T 1J4
 Contact: Charles Cormier
 charles.cormier2@dfo-mpo-gc-ca
 T: (418)986-3661
 F:

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.