



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area

[01-26544]

Machine Id

MERCUISER OL394289

Component

Starboard Diesel Engine

Fluid

SIERRA 25W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0019419	---	---
Sample Date		Client Info		11 Apr 2024	---	---
Machine Age	hrs	Client Info		995	---	---
Oil Age	hrs	Client Info		100	---	---
Filter Age	hrs	Client Info		100	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				MARGINAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	14	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)		<1	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	3	---	---
Lead	ppm	ASTM D5185(m)	>40	1	---	---
Copper	ppm	ASTM D5185(m)	>330	25	---	---
Tin	ppm	ASTM D5185(m)	>15	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

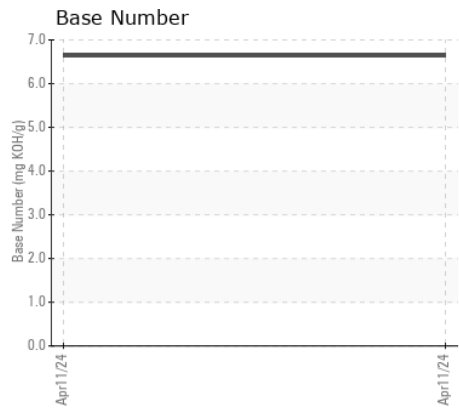
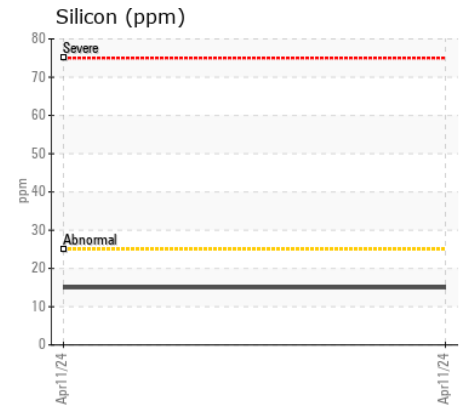
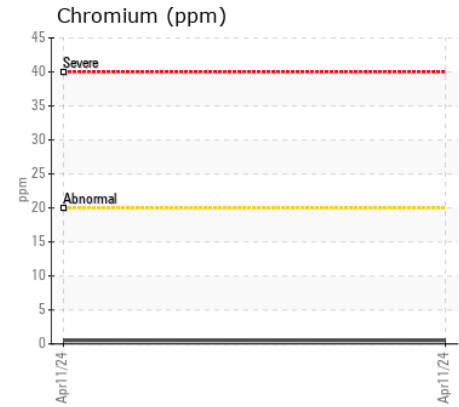
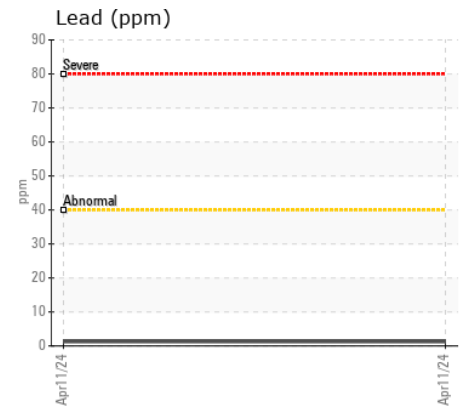
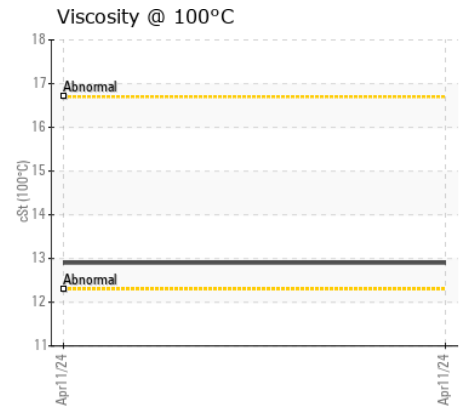
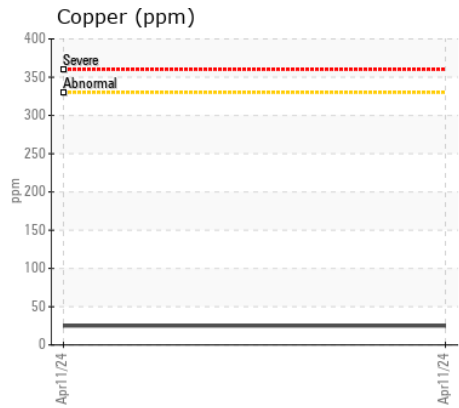
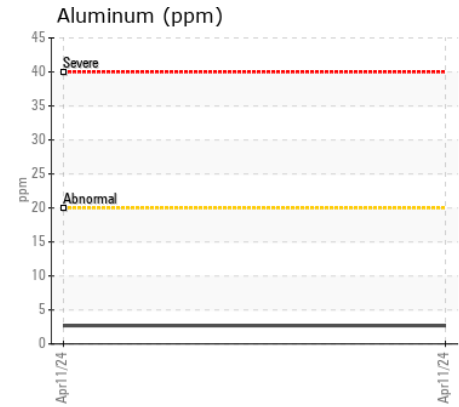
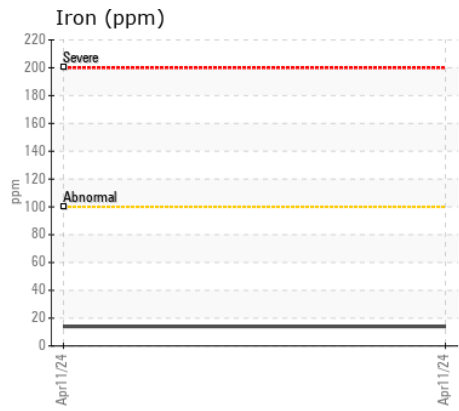
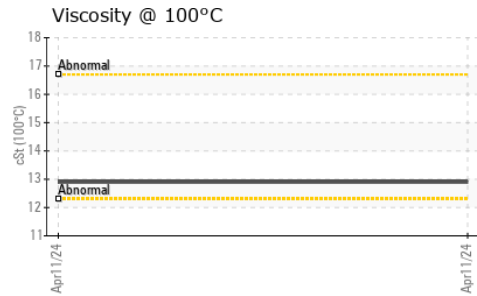
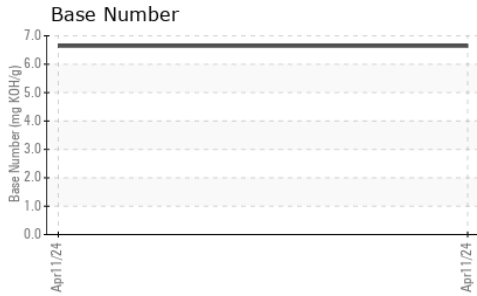
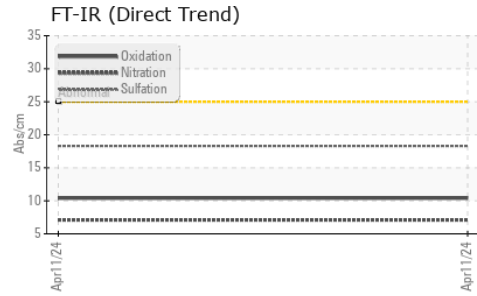
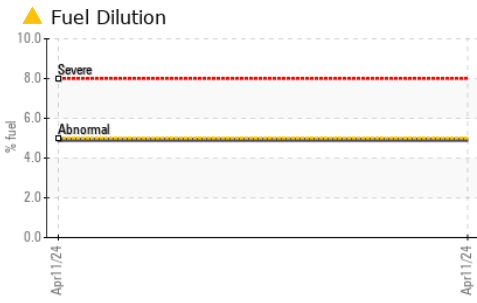
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	15	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel	%	ASTM D7593*	>5	▲ 4.9	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	7.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		12	---	---
Boron	ppm	ASTM D5185(m)		36	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		13	---	---
Manganese	ppm	ASTM D5185(m)		9	---	---
Magnesium	ppm	ASTM D5185(m)		16	---	---
Calcium	ppm	ASTM D5185(m)		2051	---	---
Phosphorus	ppm	ASTM D5185(m)		753	---	---
Zinc	ppm	ASTM D5185(m)		943	---	---
Sulfur	ppm	ASTM D5185(m)		1810	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.4	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		6.64	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		12.9	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0019419 **Received** : 18 Apr 2024
Lab Number : 02630039 **Tested** : 22 Apr 2024
Unique Number : 5763171 **Diagnosed** : 22 Apr 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FUELDILUTION, PercentFuel)

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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