



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**SLEEPING BEAR**  
Machine Id  
**YANMAR M60579**  
Component  
**Starboard Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 30 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA039172	---	---
Sample Date		Client Info		10 May 2024	---	---
Machine Age	hrs	Client Info		1142	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	4	---	---
Chromium	ppm	ASTM D5185(m)	>6	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	---	---
Lead	ppm	ASTM D5185(m)	>95	1	---	---
Copper	ppm	ASTM D5185(m)	>85	47	---	---
Tin	ppm	ASTM D5185(m)	>9	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

**CONTAMINATION**

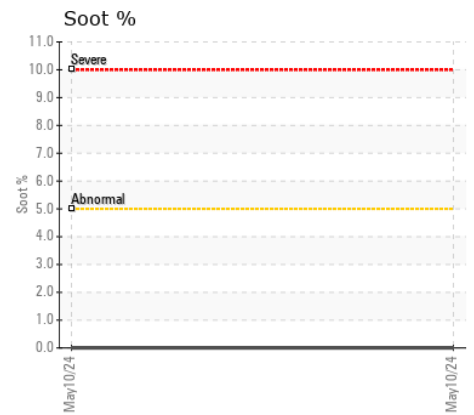
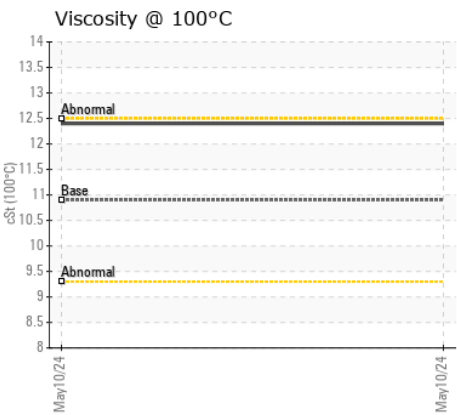
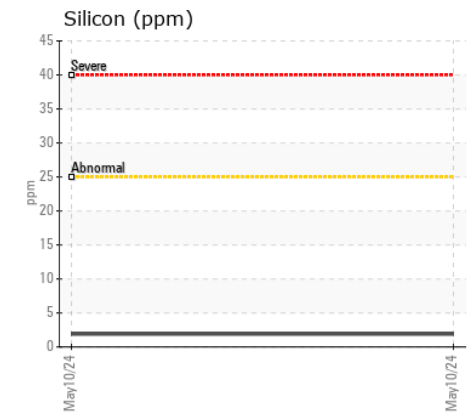
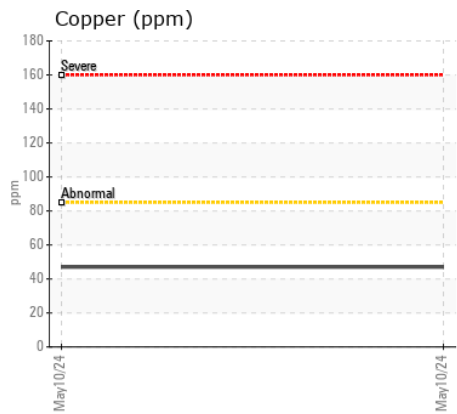
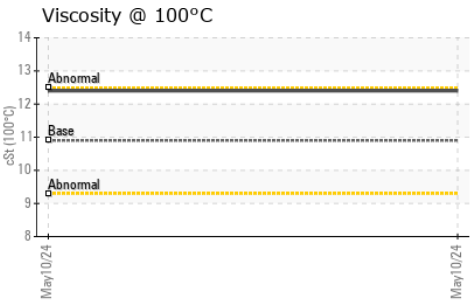
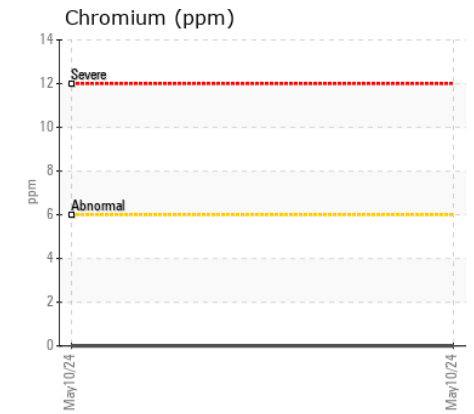
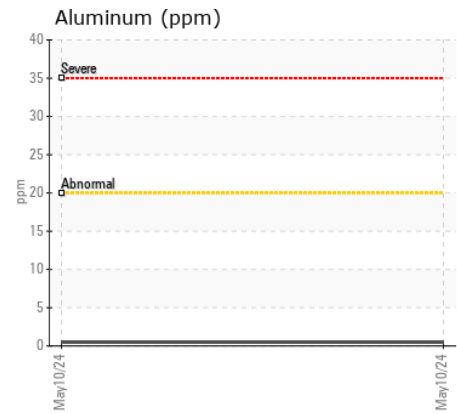
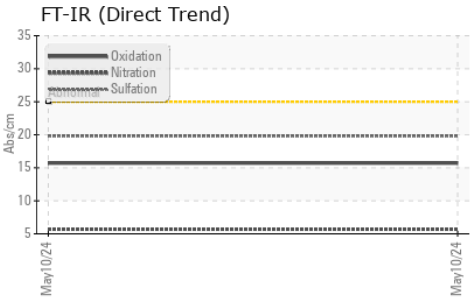
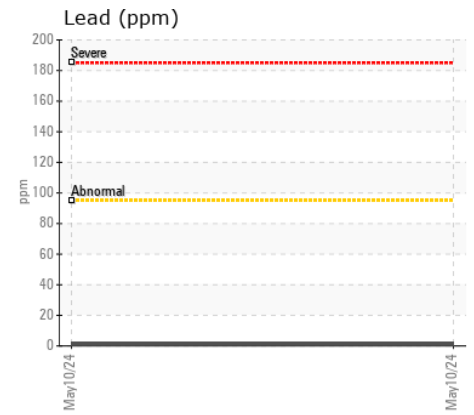
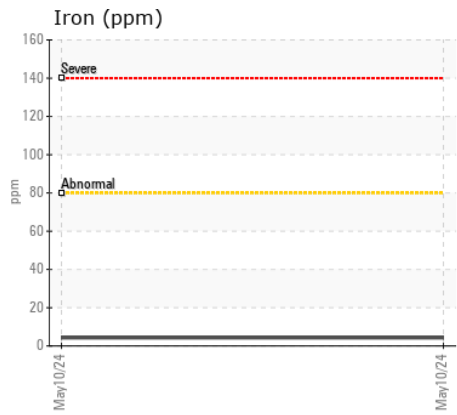
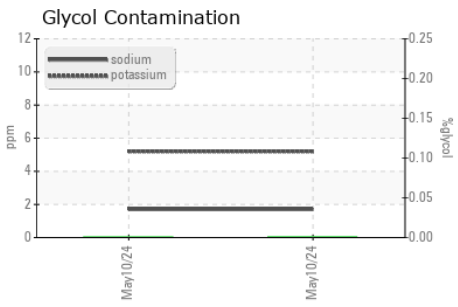
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	5	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.7	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>75	2	---	---
Boron	ppm	ASTM D5185(m)	250	165	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	2	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)	450	39	---	---
Calcium	ppm	ASTM D5185(m)	3000	1963	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	904	---	---
Zinc	ppm	ASTM D5185(m)	1350	1023	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2836	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	12.4	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VPA039172 **Received** : 15 May 2024  
**Lab Number** : 02635508 **Tested** : 15 May 2024  
**Unique Number** : 5776661 **Diagnosed** : 15 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual )

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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