



VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[19624]

Machine Id

2006035406

Component

Starboard Main Engine

Fluid

VOLVO VDS-4.5 Premium Motor Oil 15W40 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA056513	---	---
Sample Date		Client Info		04 Mar 2024	---	---
Machine Age	hrs	Client Info		19	---	---
Oil Age	hrs	Client Info		100	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	8	---	---
Chromium	ppm	ASTM D5185(m)	>8	<1	---	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---	---
Titanium	ppm	ASTM D5185(m)	>3	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>15	5	---	---
Lead	ppm	ASTM D5185(m)	>18	1	---	---
Copper	ppm	ASTM D5185(m)	>80	3	---	---
Tin	ppm	ASTM D5185(m)	>14	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

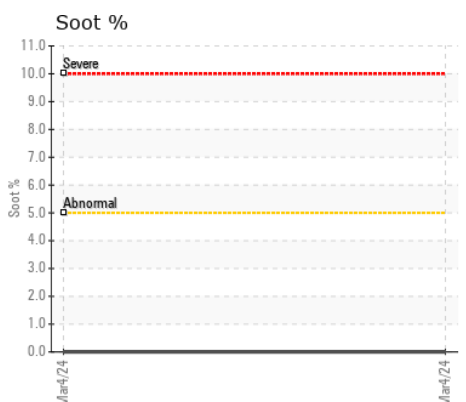
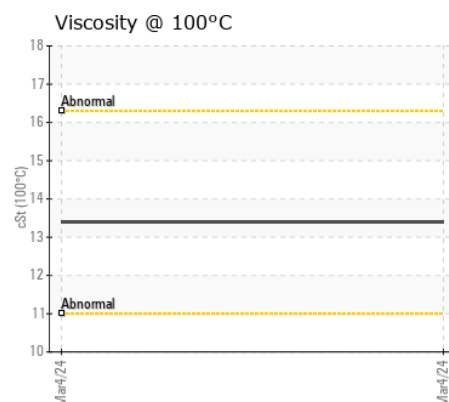
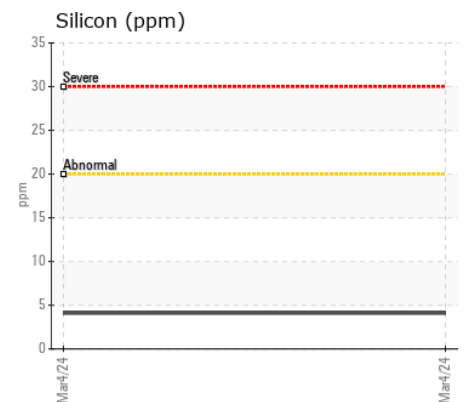
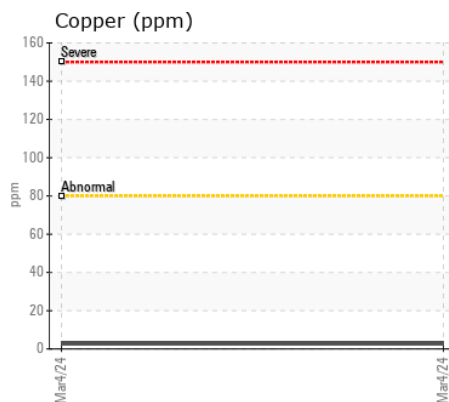
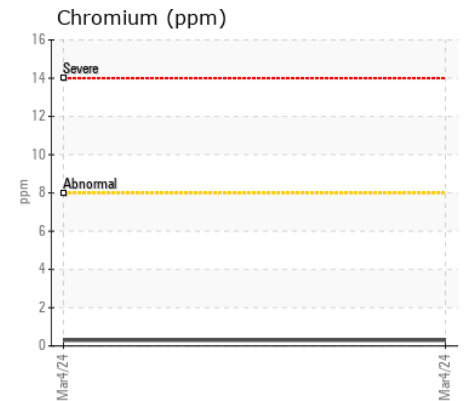
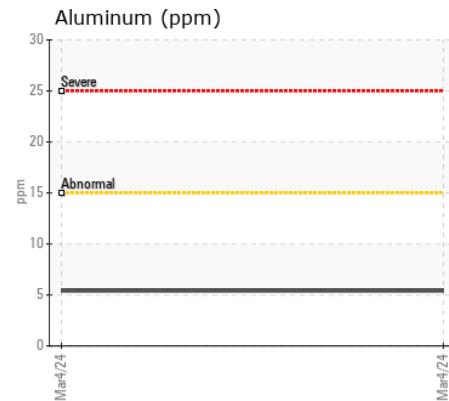
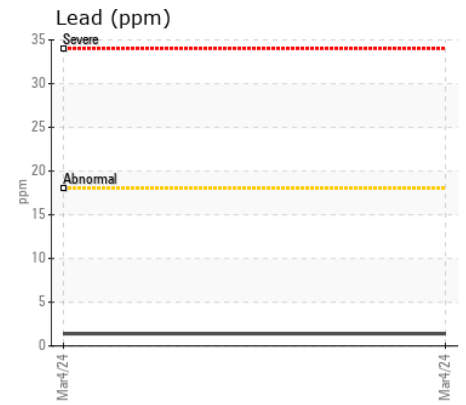
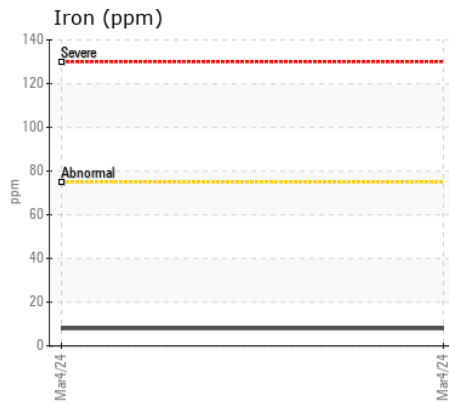
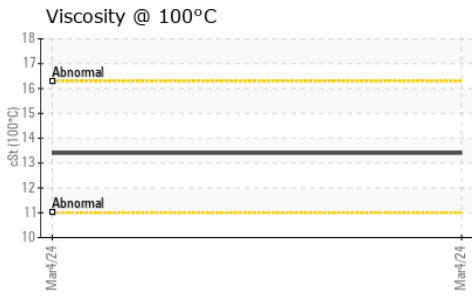
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	6.4	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	---	---
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)		50	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		41	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		540	---	---
Calcium	ppm	ASTM D5185(m)		1565	---	---
Phosphorus	ppm	ASTM D5185(m)		777	---	---
Zinc	ppm	ASTM D5185(m)		885	---	---
Sulfur	ppm	ASTM D5185(m)		2254	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.4	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VPA056513 **Received** : 06 Mar 2024
Lab Number : 02620067 **Tested** : 06 Mar 2024
Unique Number : 5737177 **Diagnosed** : 06 Mar 2024 - Kevin Marson
Test Package : MOB 1

Sea Power Ltd
 2077 Amelia Ave
 SIDNEY, BC
 CA V8L 3Z8
 Contact: Kayla Sousa
 service@seapower.ca
 T: (250)656-4341
 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.