



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[BM-19624]

Machine Id

2006035405

Component

Port 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		VPA055173	---	---
Sample Date		Client Info		04 Mar 2024	---	---
Machine Age	hrs	Client Info		1946	---	---
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	17	---	---
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	11	---	---
Lead	ppm	ASTM D5185(m)	>18	3	---	---
Copper	ppm	ASTM D5185(m)	>80	3	---	---
Tin	ppm	ASTM D5185(m)	>14	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

### CONTAMINATION

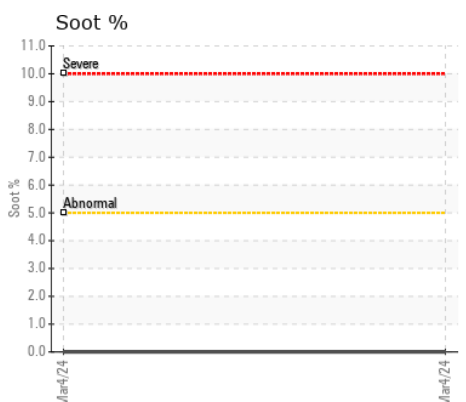
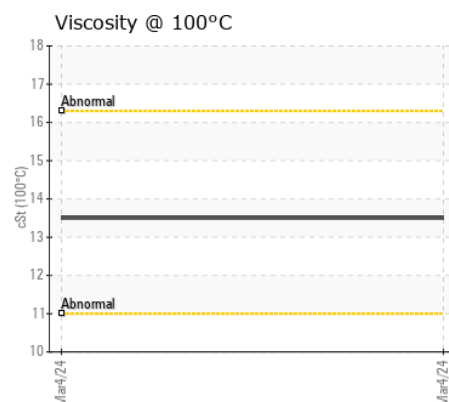
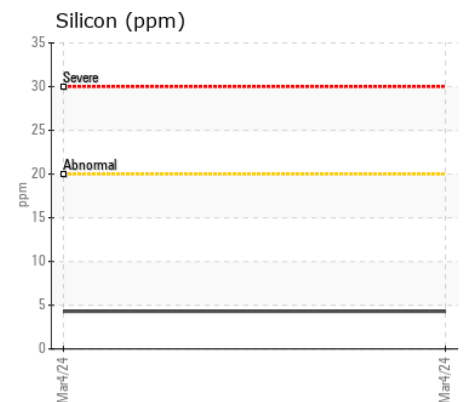
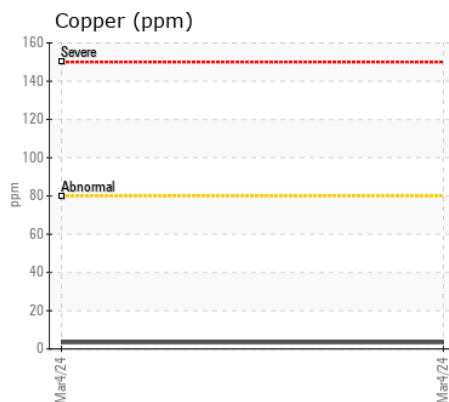
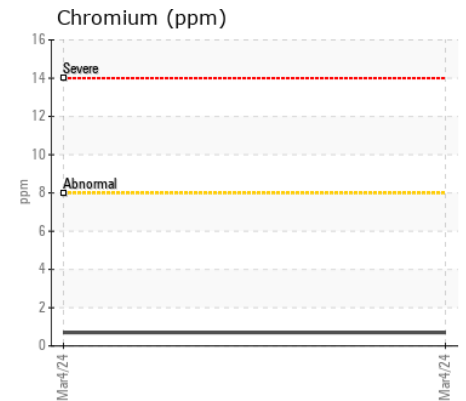
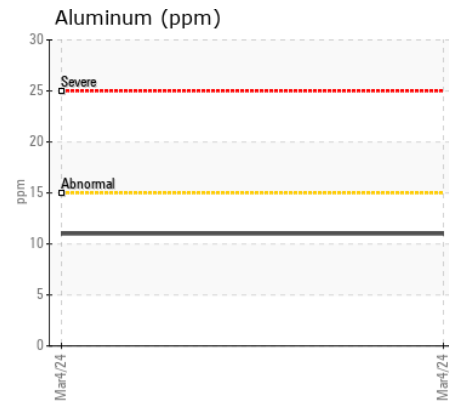
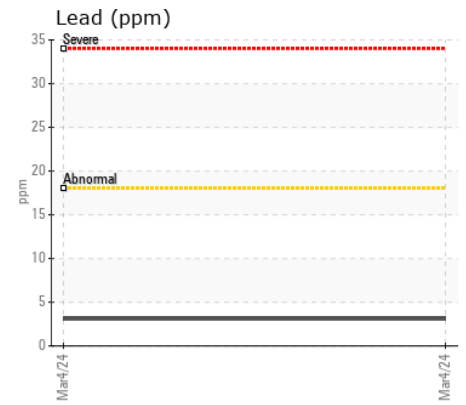
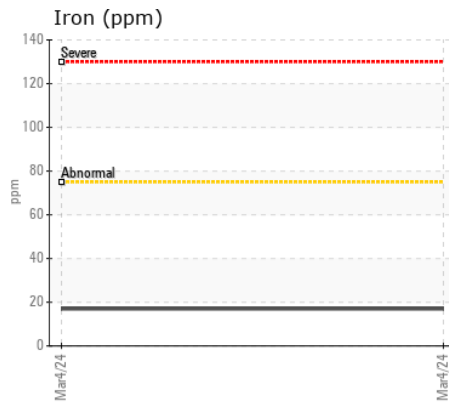
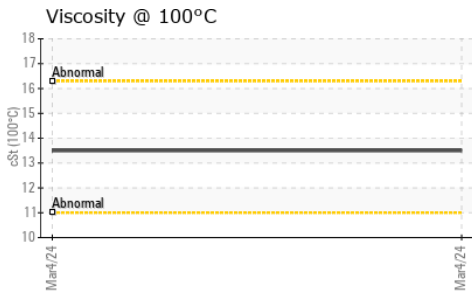
There is no indication of any contamination in the oil.

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	6.2	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.2	---	---
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	3	---	---
Boron	ppm	ASTM D5185(m)		49	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		40	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		549	---	---
Calcium	ppm	ASTM D5185(m)		1551	---	---
Phosphorus	ppm	ASTM D5185(m)		778	---	---
Zinc	ppm	ASTM D5185(m)		890	---	---
Sulfur	ppm	ASTM D5185(m)		2270	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		13.5	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VPA055173 **Received** : 06 Mar 2024  
**Lab Number** : 02620066 **Tested** : 06 Mar 2024  
**Unique Number** : 5737176 **Diagnosed** : 06 Mar 2024 - Kevin Marson  
**Test Package** : MOB 1

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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.