



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
CBM [396603]
Machine Id
VOLVO A40G 353347
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- 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		VCP393870	VCP394844	---
Sample Date		Client Info		02 Mar 2024	11 Aug 2023	---
Machine Age	hrs	Client Info		2000	1014	---
Oil Age	hrs	Client Info		1000	1000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	22	34	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>10	6	3	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	2	2	---
Lead	ppm	ASTM D5185(m)	>40	2	4	---
Copper	ppm	ASTM D5185(m)	>20	42	136	---
Tin	ppm	ASTM D5185(m)	>20	1	4	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

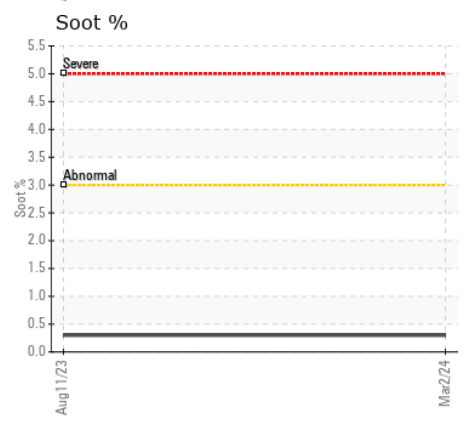
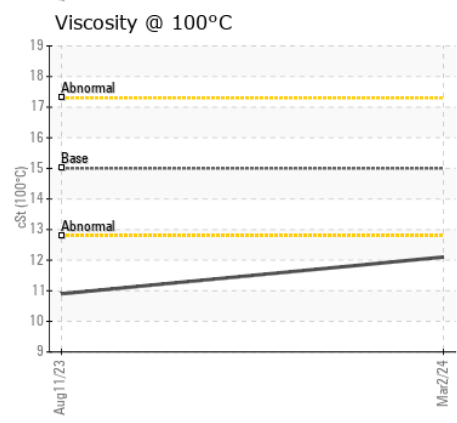
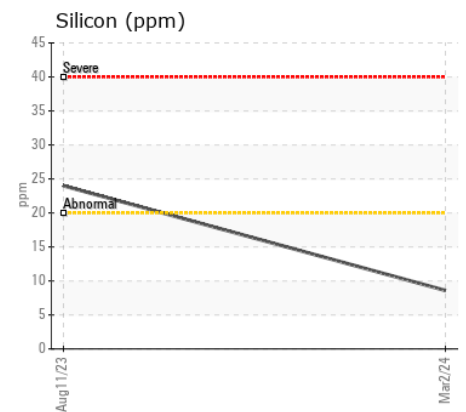
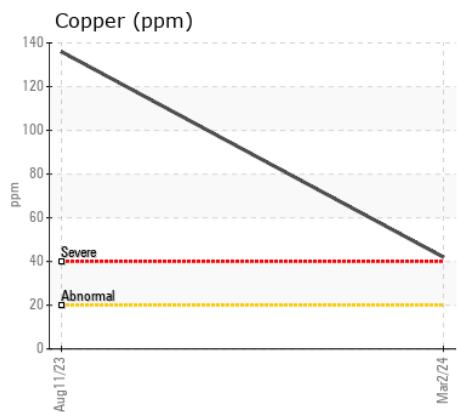
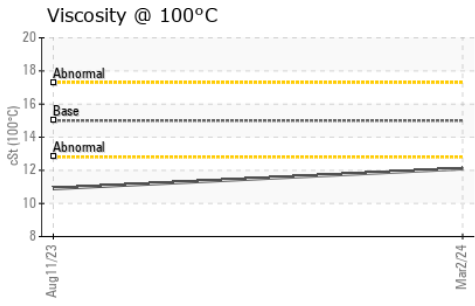
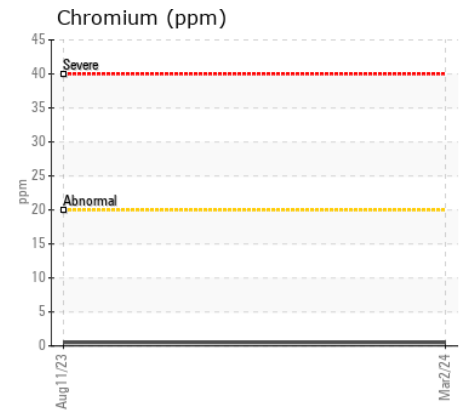
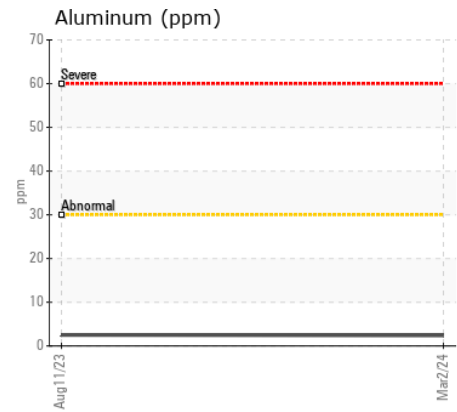
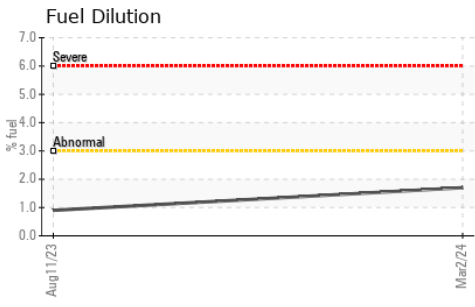
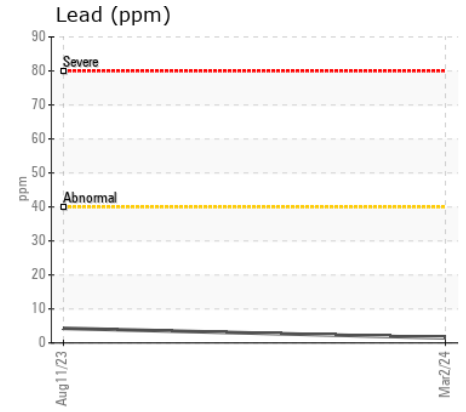
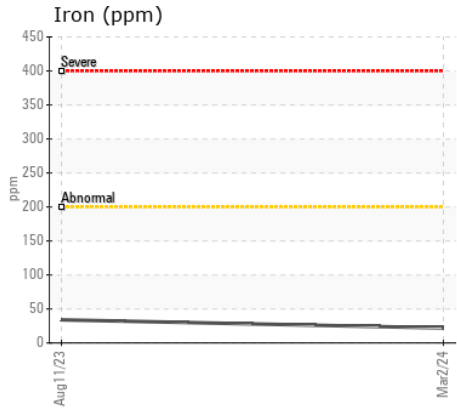
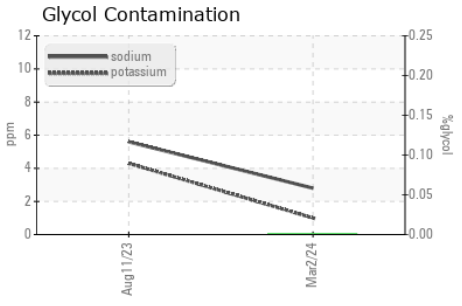
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	9	24	---
Potassium	ppm	ASTM D5185(m)	>20	1	4	---
Fuel	%	ASTM D7593*	>3.0	1.7	0.9	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	ASTM D7922*		0.0	NEG	---
Soot %	%	ASTM D7844*	>3	0.3	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	11.5	11.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.5	26.4	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	6	---
Boron	ppm	ASTM D5185(m)	2.5	15	11	---
Barium	ppm	ASTM D5185(m)	0.0	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0.7	47	87	---
Manganese	ppm	ASTM D5185(m)	0.0	<1	3	---
Magnesium	ppm	ASTM D5185(m)	256	420	50	---
Calcium	ppm	ASTM D5185(m)	2057	1805	2223	---
Phosphorus	ppm	ASTM D5185(m)	935	827	991	---
Zinc	ppm	ASTM D5185(m)	1223	1060	1143	---
Sulfur	ppm	ASTM D5185(m)	4079	2452	3019	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.2	18.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.1	▲ 10.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP393870 **Received** : 06 Mar 2024
Lab Number : 02620157 **Tested** : 07 Mar 2024
Unique Number : 5737267 **Diagnosed** : 07 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

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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.