



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE

NORMAL

NORMAL



Area

[8-401723]

Machine Id

VOLVO A40G 353298

Component

Diesel Engine

Fluid

{not provided} (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP391922	---	---
Sample Date		Client Info		26 Apr 2024	---	---
Machine Age	hrs	Client Info		3500	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---

WEAR

Nickel ppm levels are severe. Exhaust valve wear is indicated.

Iron	ppm	ASTM D5185(m)	>100	27	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>2	▲ 15	---	---
Titanium	ppm	ASTM D5185(m)		5	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	4	---	---
Lead	ppm	ASTM D5185(m)	>40	2	---	---
Copper	ppm	ASTM D5185(m)	>330	111	---	---
Tin	ppm	ASTM D5185(m)	>15	1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

There is no indication of any contamination in the oil.

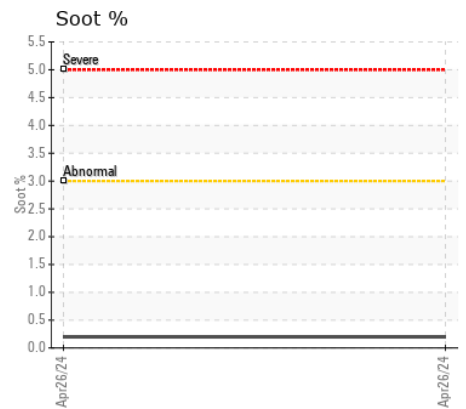
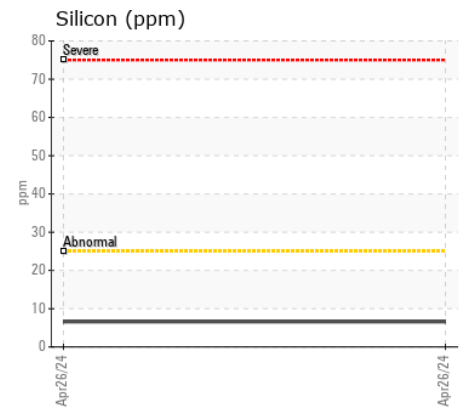
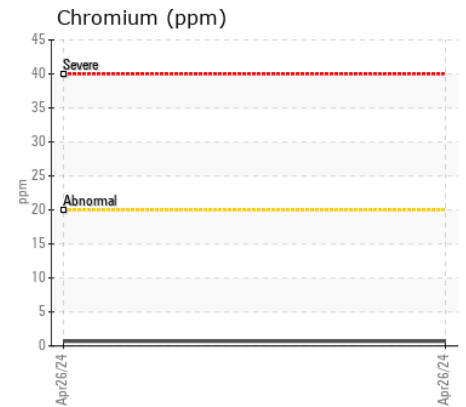
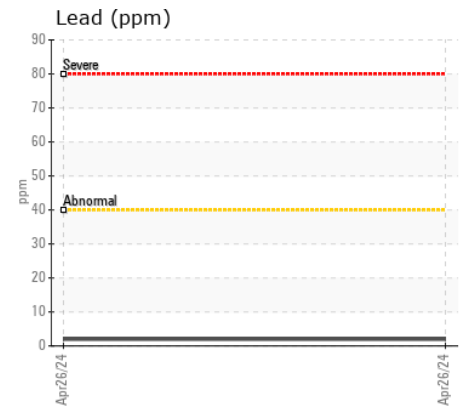
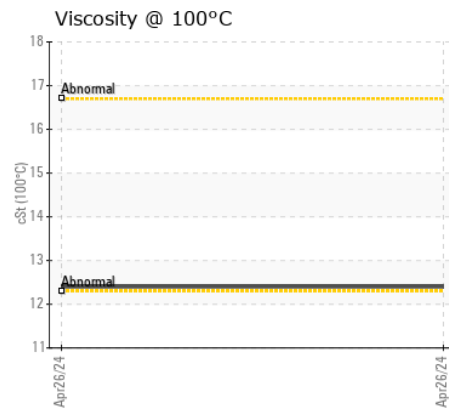
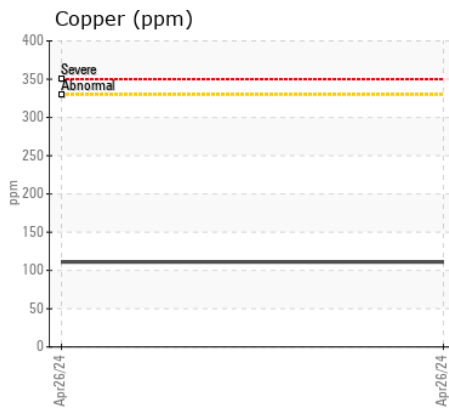
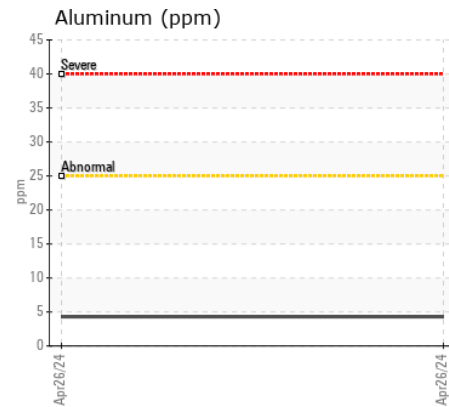
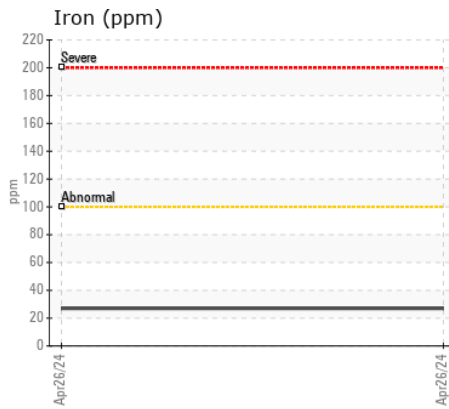
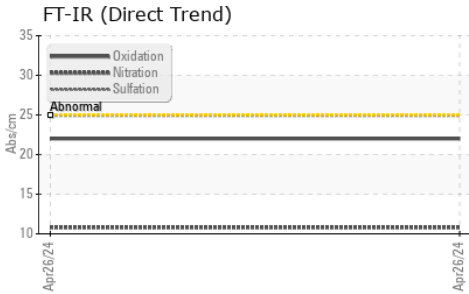
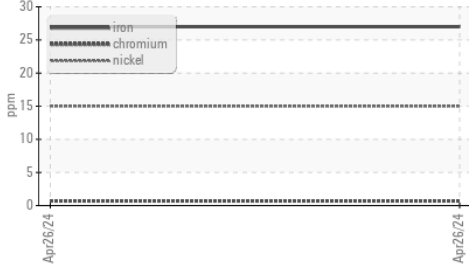
Silicon	ppm	ASTM D5185(m)	>25	7	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>6.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0.2	---	---
Nitration	Abs/cm	ASTM D7624*	>20	10.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.9	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)		14	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		40	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)		400	---	---
Calcium	ppm	ASTM D5185(m)		1774	---	---
Phosphorus	ppm	ASTM D5185(m)		794	---	---
Zinc	ppm	ASTM D5185(m)		1033	---	---
Sulfur	ppm	ASTM D5185(m)		2221	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		12.4	---	---

▲ Ferrous Alloys



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP391922 **Received** : 13 May 2024
Lab Number : 02634925 **Tested** : 13 May 2024
Unique Number : 5776078 **Diagnosed** : 13 May 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.