



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
CBM [396603]
Machine Id
VOLVO A40G 353347
Component
Rear Axle
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP394277	VCP394842	---
Sample Date		Client Info		02 Mar 2024	11 Aug 2023	---
Machine Age	hrs	Client Info		2000	1014	---
Oil Age	hrs	Client Info		2000	1000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Not Changed	Not Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>900	302	275	---
Chromium	ppm	ASTM D5185(m)	>20	4	4	---
Nickel	ppm	ASTM D5185(m)	>10	1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	<1	0	---
Lead	ppm	ASTM D5185(m)	>50	<1	0	---
Copper	ppm	ASTM D5185(m)	>150	2	1	---
Tin	ppm	ASTM D5185(m)	>20	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

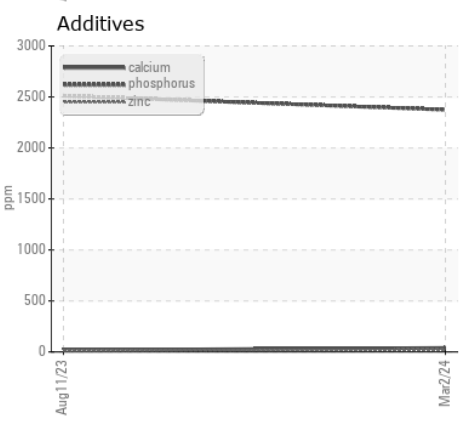
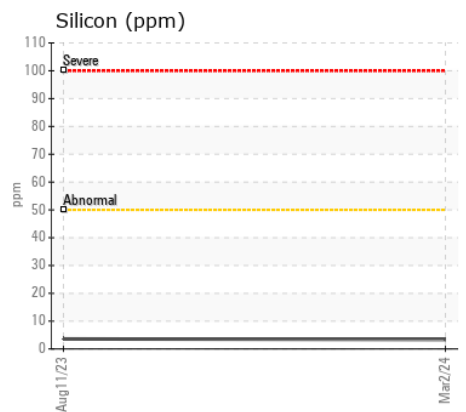
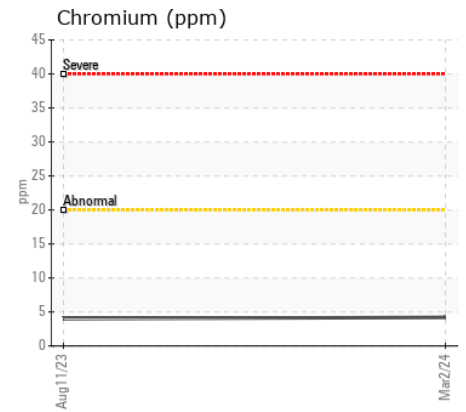
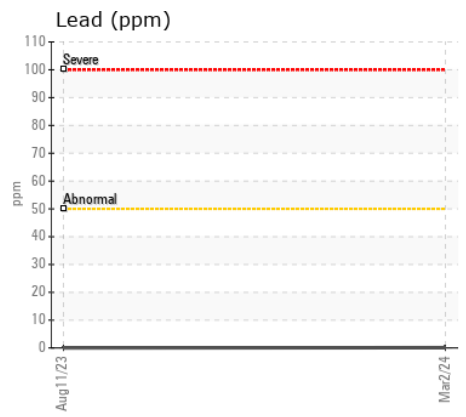
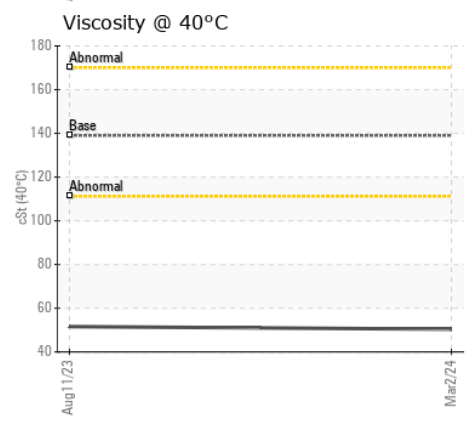
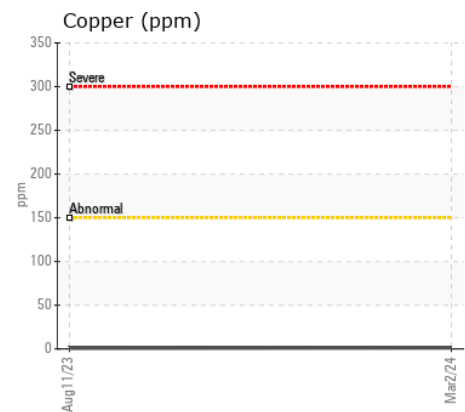
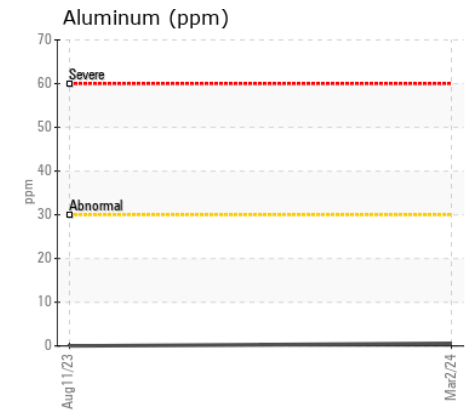
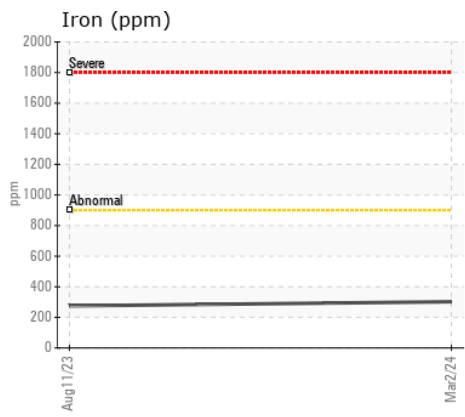
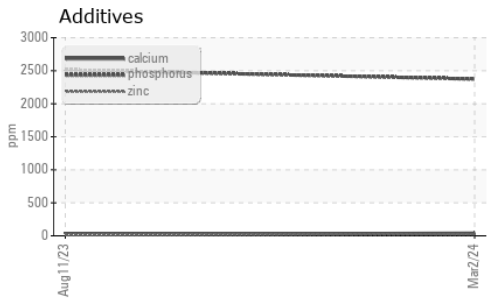
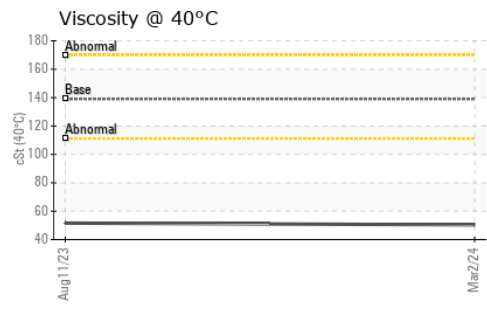
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	3	4	---
Potassium	ppm	ASTM D5185(m)	>20	8	6	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	VLITE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		4	3	---
Boron	ppm	ASTM D5185(m)	379	244	259	---
Barium	ppm	ASTM D5185(m)	0.0	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0.8	6	6	---
Manganese	ppm	ASTM D5185(m)	0.0	8	8	---
Magnesium	ppm	ASTM D5185(m)	31	1	1	---
Calcium	ppm	ASTM D5185(m)	38	40	18	---
Phosphorus	ppm	ASTM D5185(m)	1077	2374	2511	---
Zinc	ppm	ASTM D5185(m)	46	21	14	---
Sulfur	ppm	ASTM D5185(m)	23526	25285	26849	---
Visc @ 40°C	cSt	ASTM D7279(m)	139	50.4	51.6	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP394277 **Received** : 06 Mar 2024
Lab Number : 02620268 **Tested** : 06 Mar 2024
Unique Number : 5737378 **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.