



VOLVO

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A40G 352987
Component
Drop Box
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP438590	VCP433583	---
Sample Date		Client Info		15 Apr 2024	29 Sep 2023	---
Machine Age	hrs	Client Info		3943	3262	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				SEVERE	SEVERE	---

WEAR

Gear wear is indicated. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 904	▲ 1647	---
Chromium	ppm	ASTM D5185m	>20	9	15	---
Nickel	ppm	ASTM D5185m	>10	5	4	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	2	---
Aluminum	ppm	ASTM D5185m	>30	4	2	---
Lead	ppm	ASTM D5185m	>30	0	7	---
Copper	ppm	ASTM D5185m	>30	▲ 545	▲ 719	---
Tin	ppm	ASTM D5185m	>20	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

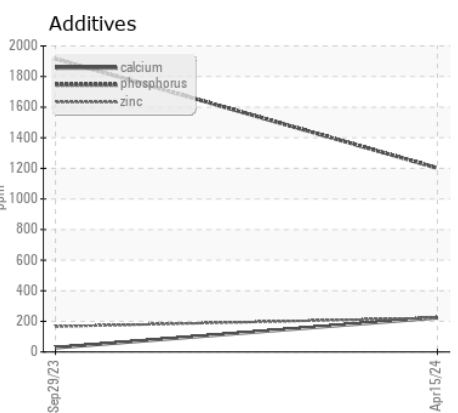
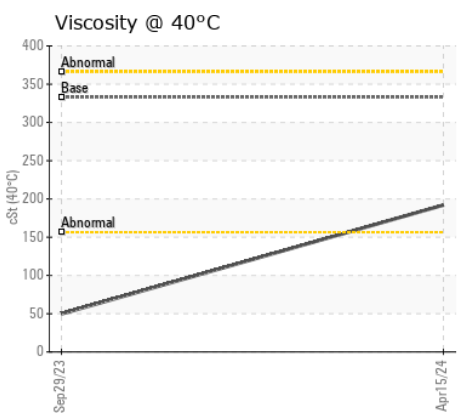
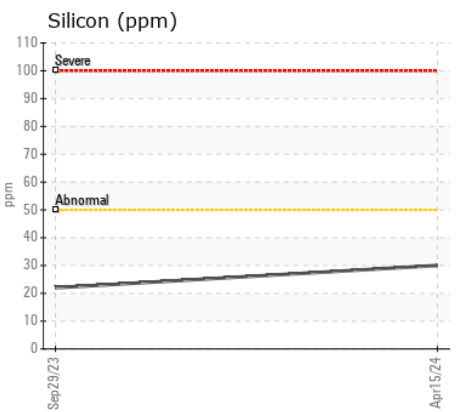
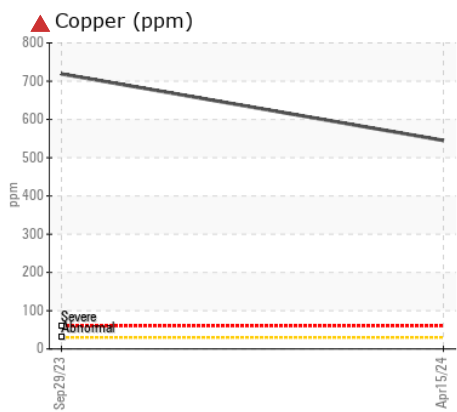
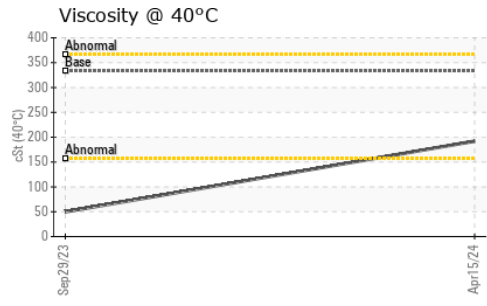
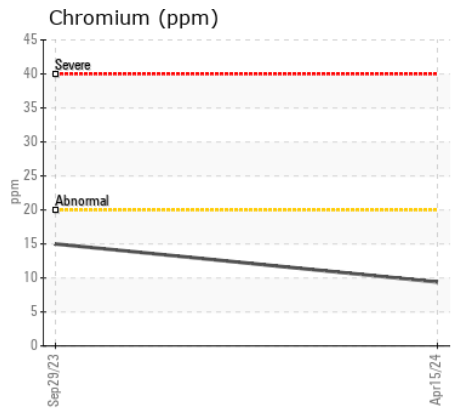
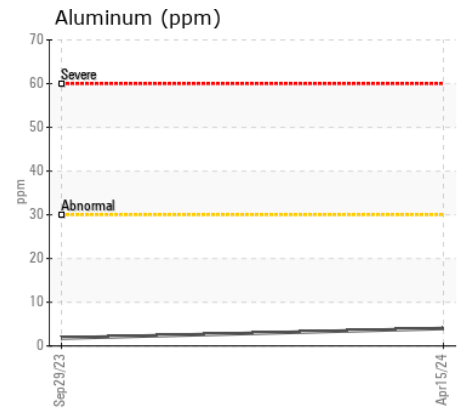
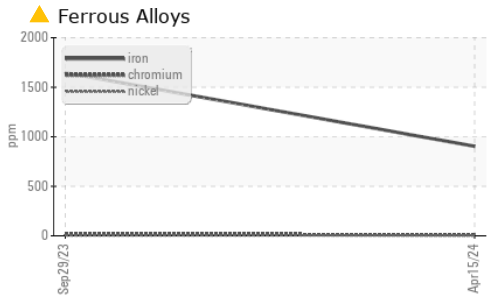
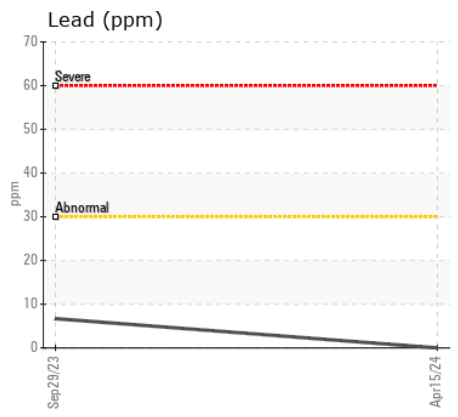
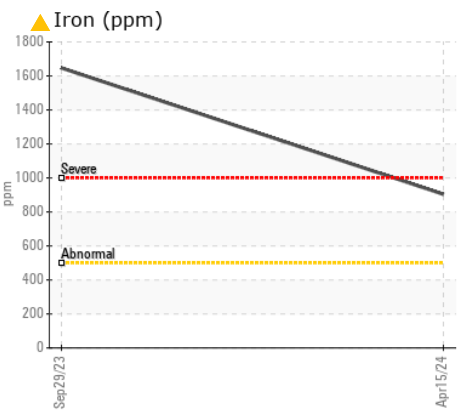
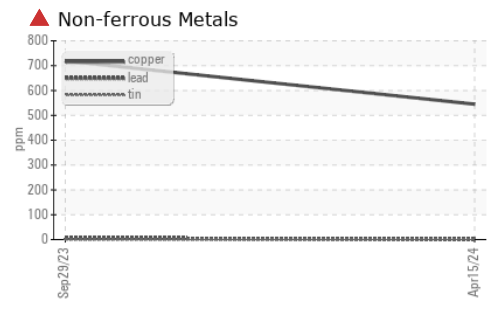
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	30	22	---
Potassium	ppm	ASTM D5185m	>20	<1	1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
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	0.2%	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	1	---
Boron	ppm	ASTM D5185m	111	94	21	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.9	52	96	---
Manganese	ppm	ASTM D5185m	0.0	13	5	---
Magnesium	ppm	ASTM D5185m	39	28	2	---
Calcium	ppm	ASTM D5185m	93	224	28	---
Phosphorus	ppm	ASTM D5185m	920	1202	1916	---
Zinc	ppm	ASTM D5185m	104	223	166	---
Sulfur	ppm	ASTM D5185m	20179	29060	21372	---
Visc @ 40°C	cSt	ASTM D445	333	192	● 49.7	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP438590 **Received** : 19 Apr 2024
Lab Number : 06154925 **Tested** : 22 Apr 2024
Unique Number : 10990348 **Diagnosed** : 24 Apr 2024 - Sean Felton
Test Package : MOB 1

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)