



VOLVO

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[SPM688079 US STEEL]
 Machine Id
VOLVO A25G 752203
 Component
Bogie/Center Axle
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

The oil 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		VCP427293	VCP360039	---
Sample Date		Client Info		19 Mar 2024	29 Mar 2022	---
Machine Age	hrs	Client Info		9546	3706	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	Not Changed	---
Sample Status				SEVERE	NORMAL	---

WEAR

Bearing and/or bushing wear is indicated. High concentration of visible metal present.

Iron	ppm	ASTM D5185m	>900	70	199	---
Chromium	ppm	ASTM D5185m	>20	<1	4	---
Nickel	ppm	ASTM D5185m	>10	0	3	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	5	---
Aluminum	ppm	ASTM D5185m	>30	<1	2	---
Lead	ppm	ASTM D5185m	>50	0	<1	---
Copper	ppm	ASTM D5185m	>150	▲ 898	82	---
Tin	ppm	ASTM D5185m	>20	▲ 26	4	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	▲ HEAVY	NONE	---

CONTAMINATION

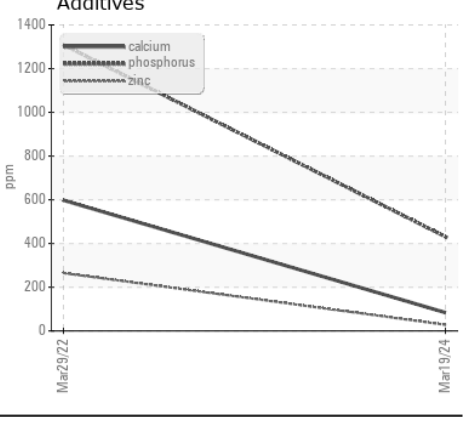
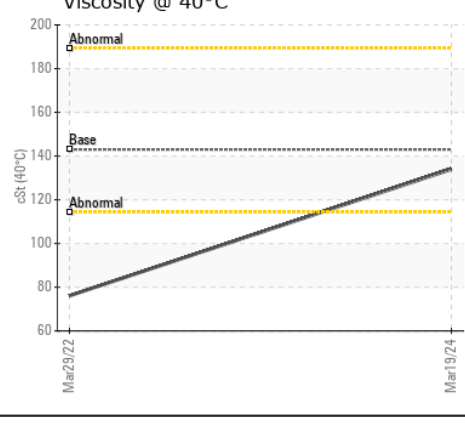
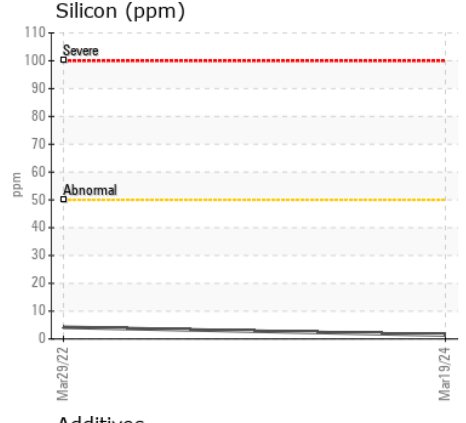
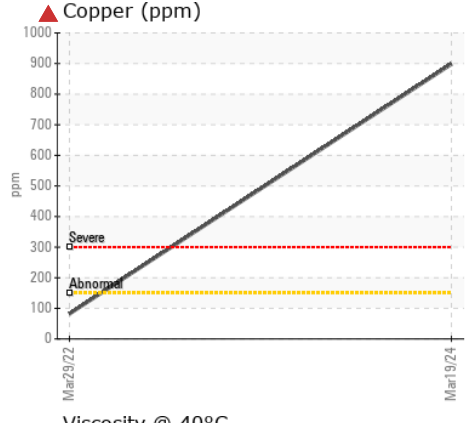
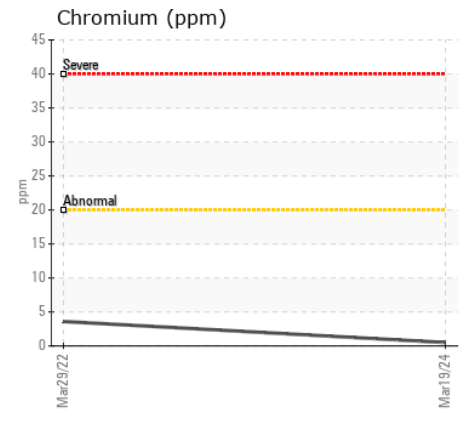
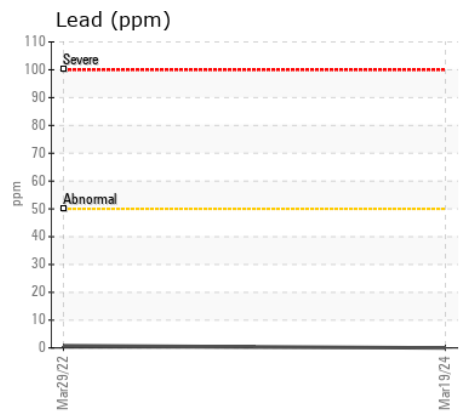
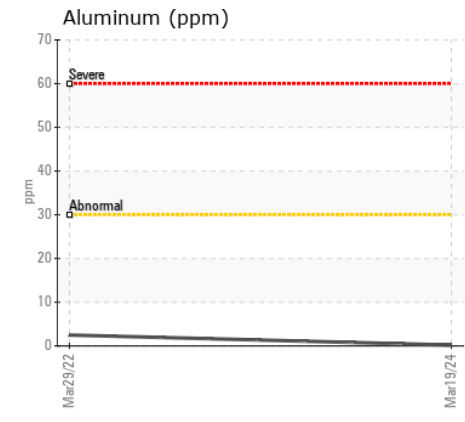
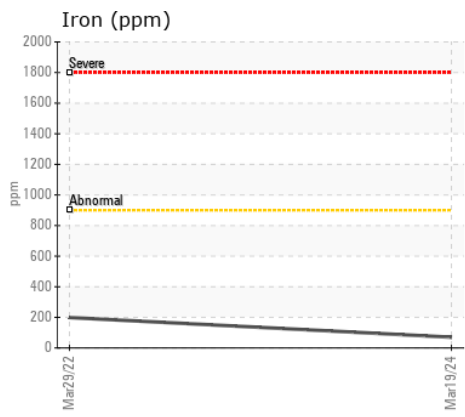
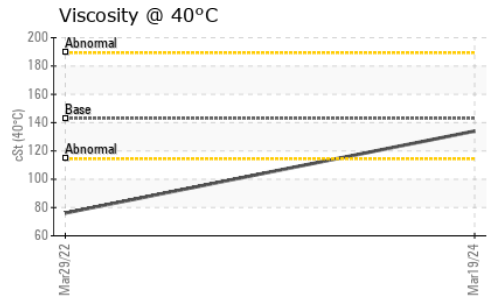
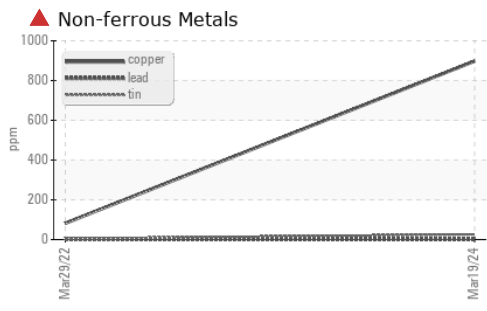
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	1	4	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	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	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	<1	2	---
Boron	ppm	ASTM D5185m	400	6	171	---
Barium	ppm	ASTM D5185m	200	0	5	---
Molybdenum	ppm	ASTM D5185m	12	1	6	---
Manganese	ppm	ASTM D5185m		2	11	---
Magnesium	ppm	ASTM D5185m	12	0	12	---
Calcium	ppm	ASTM D5185m	150	84	598	---
Phosphorus	ppm	ASTM D5185m	1650	431	1309	---
Zinc	ppm	ASTM D5185m	125	28	265	---
Sulfur	ppm	ASTM D5185m	22500	19347	15222	---
Visc @ 40°C	cSt	ASTM D445	143	134	76.1	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP427293 **Received** : 19 Apr 2024
Lab Number : 06154876 **Tested** : 22 Apr 2024
Unique Number : 10990299 **Diagnosed** : 24 Apr 2024 - Sean Felton
Test Package : MOB 1

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:

Certificate L2367
 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)