



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP427320	VCP360036	---
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				ABNORMAL	NORMAL	---

WEAR

High concentration of visible metal present. All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	180	321	---
Chromium	ppm	ASTM D5185m	>20	2	4	---
Nickel	ppm	ASTM D5185m	>10	0	2	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>30	3	3	---
Lead	ppm	ASTM D5185m	>50	0	<1	---
Copper	ppm	ASTM D5185m	>150	77	54	---
Tin	ppm	ASTM D5185m	>20	3	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	HEAVY	NONE	---

CONTAMINATION

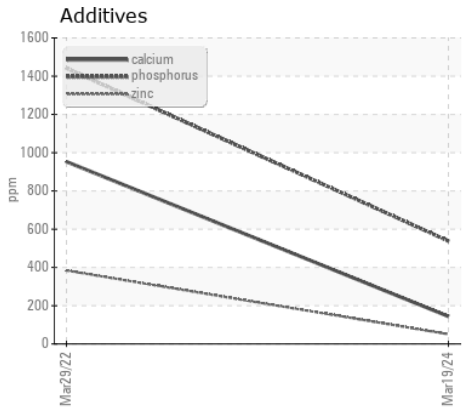
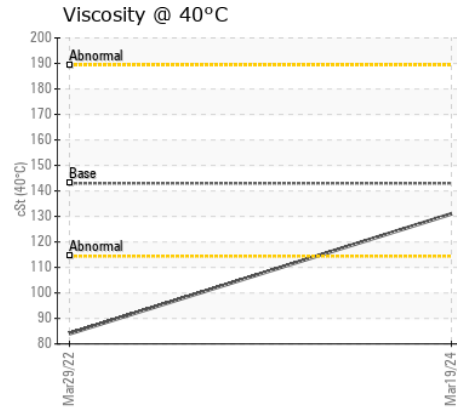
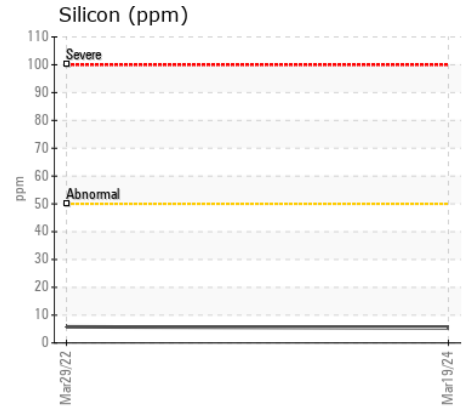
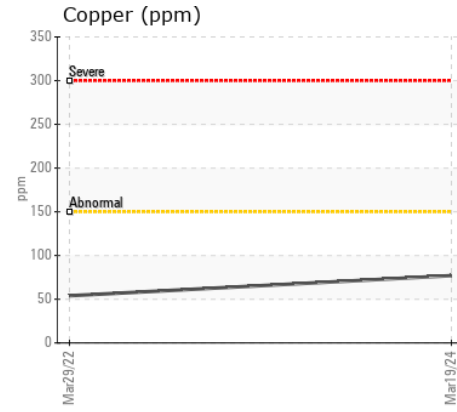
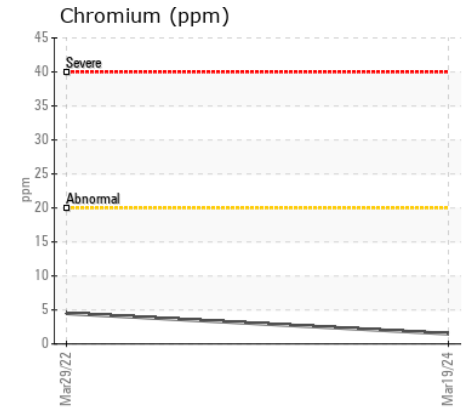
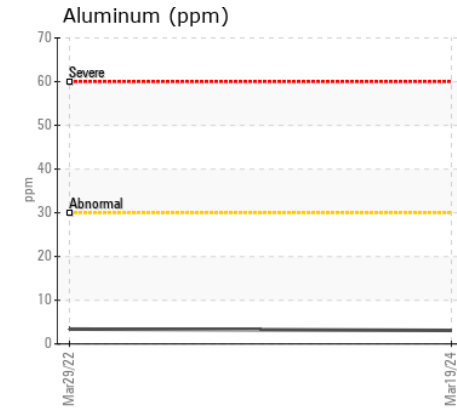
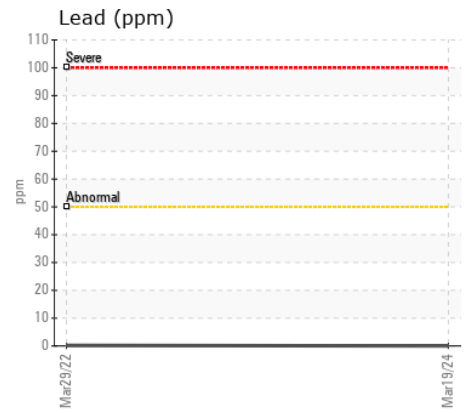
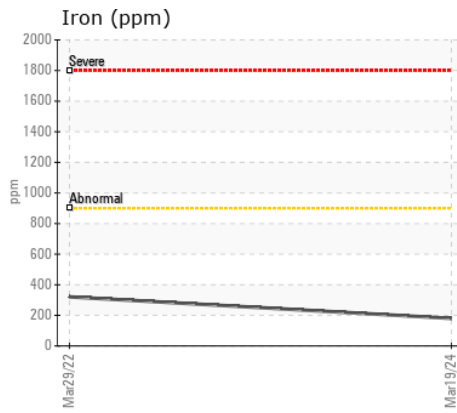
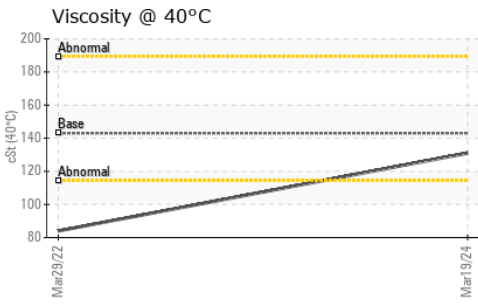
There is a high amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>50	5	6	---
Potassium	ppm	ASTM D5185m	>20	<1	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	HEAVY	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	1	<1	---
Boron	ppm	ASTM D5185m	400	7	188	---
Barium	ppm	ASTM D5185m	200	0	2	---
Molybdenum	ppm	ASTM D5185m	12	1	5	---
Manganese	ppm	ASTM D5185m		4	12	---
Magnesium	ppm	ASTM D5185m	12	0	10	---
Calcium	ppm	ASTM D5185m	150	144	953	---
Phosphorus	ppm	ASTM D5185m	1650	538	1442	---
Zinc	ppm	ASTM D5185m	125	51	384	---
Sulfur	ppm	ASTM D5185m	22500	19595	16929	---
Visc @ 40°C	cSt	ASTM D445	143	131	84.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP427320
Lab Number : 06154871
Unique Number : 10990294
Test Package : MOB 1

Received : 19 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 24 Apr 2024 - Sean Felton

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 5000 INDUSTRIAL HWY
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 US 46406
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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)