



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[SWO071176]
 Machine Id
VOLVO A45G 352734
 Component
Front Axle
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP434417	VCP427323	VCP382603
Sample Date		Client Info		12 Apr 2024	21 Aug 2023	27 Apr 2023
Machine Age	hrs	Client Info		4585	3997	3463
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	180	255	246
Chromium	ppm	ASTM D5185m	>20	4	4	4
Nickel	ppm	ASTM D5185m	>10	2	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>30	1	4	0
Lead	ppm	ASTM D5185m	>50	1	0	0
Copper	ppm	ASTM D5185m	>150	1	<1	<1
Tin	ppm	ASTM D5185m	>20	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	MODER	NONE	NONE

CONTAMINATION

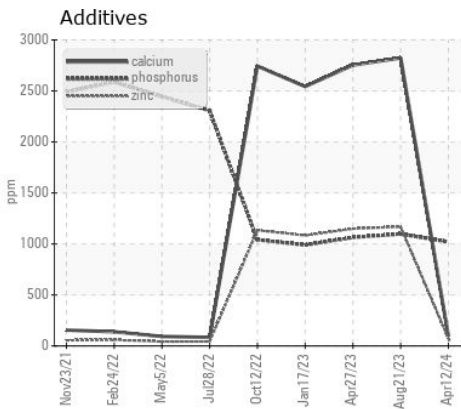
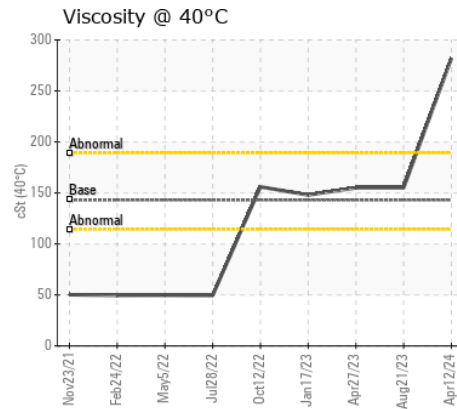
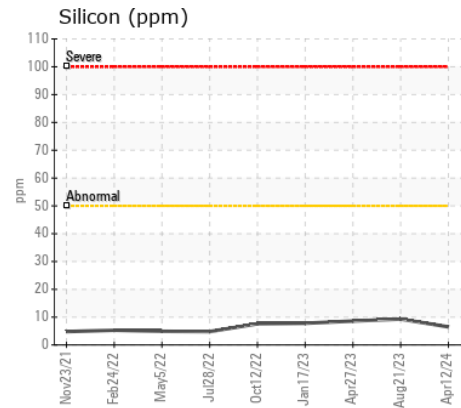
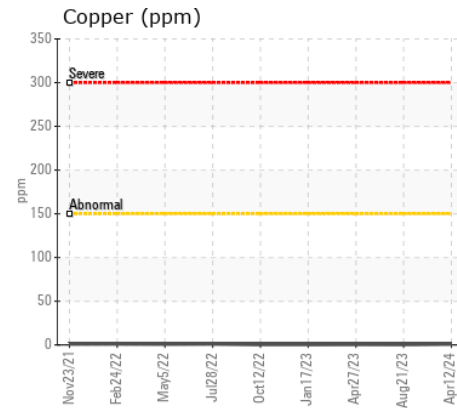
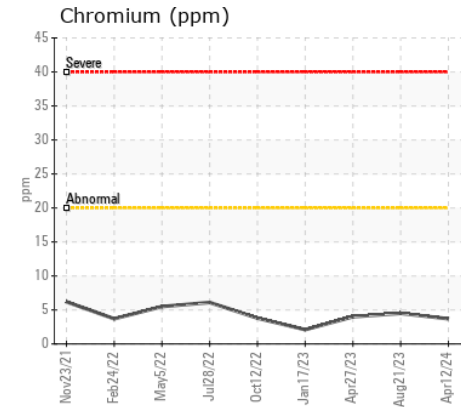
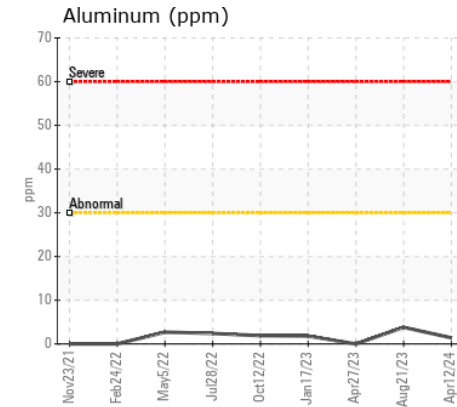
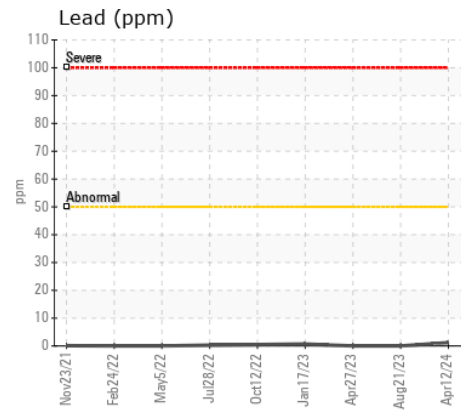
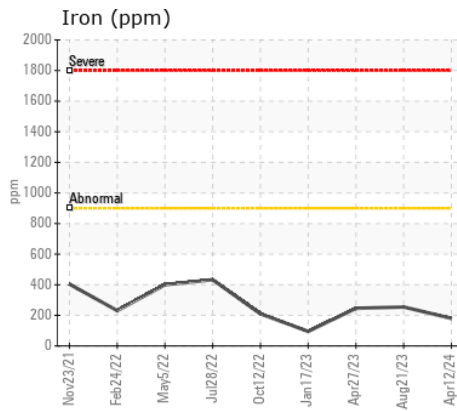
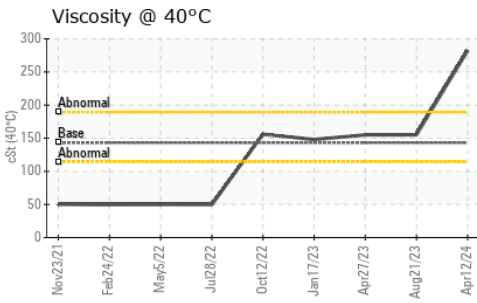
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	6	9	9
Potassium	ppm	ASTM D5185m	>20	1	2	5
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	<1	9	4
Boron	ppm	ASTM D5185m	400	157	57	53
Barium	ppm	ASTM D5185m	200	0	6	0
Molybdenum	ppm	ASTM D5185m	12	14	5	6
Manganese	ppm	ASTM D5185m		6	9	8
Magnesium	ppm	ASTM D5185m	12	25	31	24
Calcium	ppm	ASTM D5185m	150	99	2824	2753
Phosphorus	ppm	ASTM D5185m	1650	1020	1098	1064
Zinc	ppm	ASTM D5185m	125	73	1169	1149
Sulfur	ppm	ASTM D5185m	22500	25295	12428	10810
Visc @ 40°C	cSt	ASTM D445	143	282	155	155



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP434417
Lab Number : 06152352
Unique Number : 10982430
Test Package : MOB 1

Received : 17 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 22 Apr 2024 - Sean Felton

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

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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)

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