



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
[SPM687839]
 Machine Id
VOLVO A60H 340125

Component
Brake Cooling System
 Fluid
VOLVO WET BRAKE TRANSAXLE OIL (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP436409	VCP378775	---
Sample Date		Client Info		12 Apr 2024	27 Aug 2022	---
Machine Age	hrs	Client Info		8696	6235	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Gear wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	▲ 324	50	---
Chromium	ppm	ASTM D5185m	>10	4	<1	---
Nickel	ppm	ASTM D5185m	>10	3	3	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m		0	1	---
Lead	ppm	ASTM D5185m		<1	1	---
Copper	ppm	ASTM D5185m		4	▲ 342	---
Tin	ppm	ASTM D5185m		<1	0	---
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 fluid.

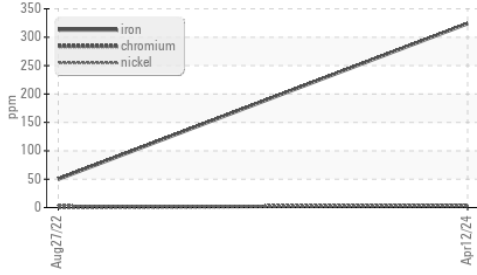
Silicon	ppm	ASTM D5185m		2	18	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

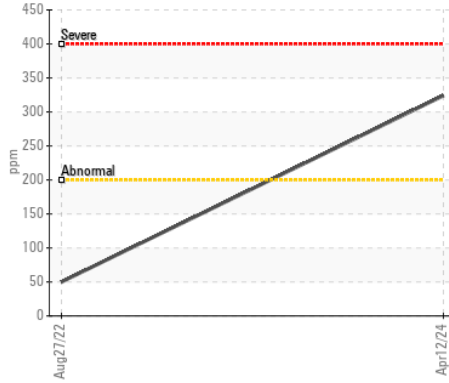
The fluid viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		3	7	---
Boron	ppm	ASTM D5185m	100	194	122	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	2	<1	---
Manganese	ppm	ASTM D5185m		5	2	---
Magnesium	ppm	ASTM D5185m	0	14	9	---
Calcium	ppm	ASTM D5185m	3800	● 200	3414	---
Phosphorus	ppm	ASTM D5185m	1200	1021	1221	---
Zinc	ppm	ASTM D5185m	1500	● 88	1497	---
Sulfur	ppm	ASTM D5185m	6500	● 29350	4363	---
Visc @ 40°C	cSt	ASTM D445	52.0	● 136	40.2	---

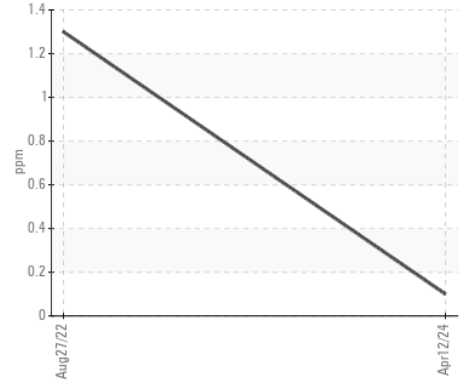
▲ Ferrous Alloys



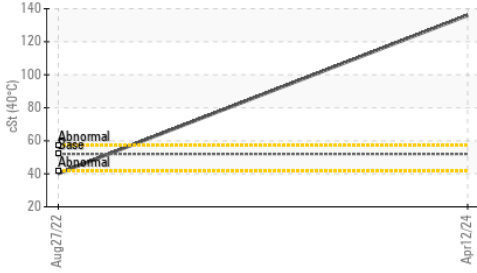
▲ Iron (ppm)



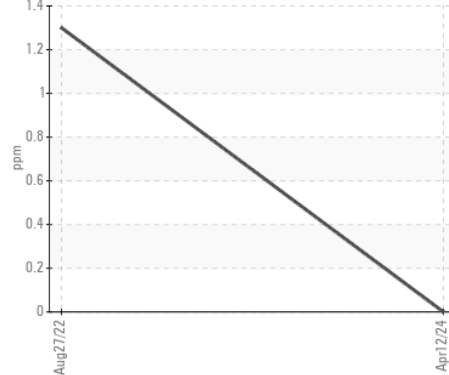
▲ Lead (ppm)



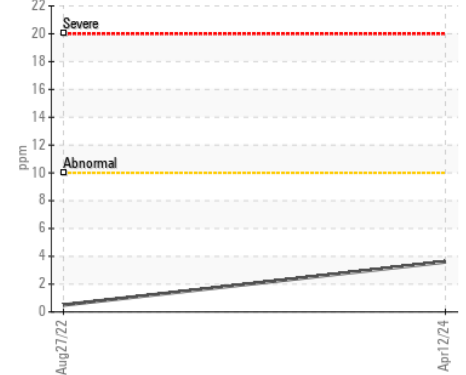
● Viscosity @ 40°C



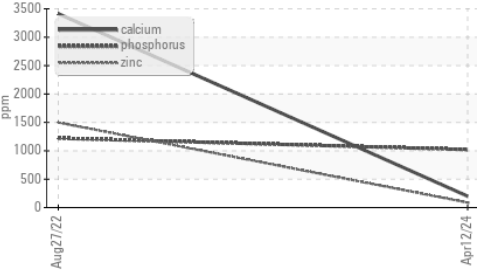
▲ Aluminum (ppm)



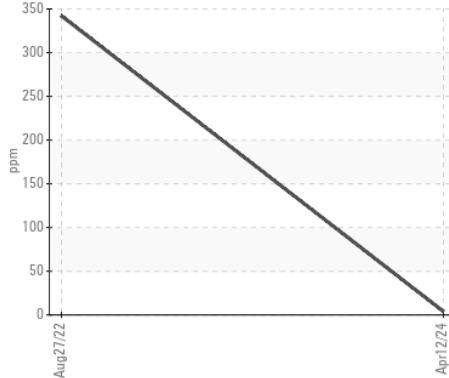
▲ Chromium (ppm)



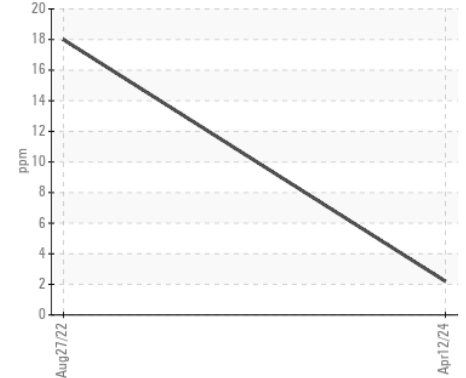
● Additives



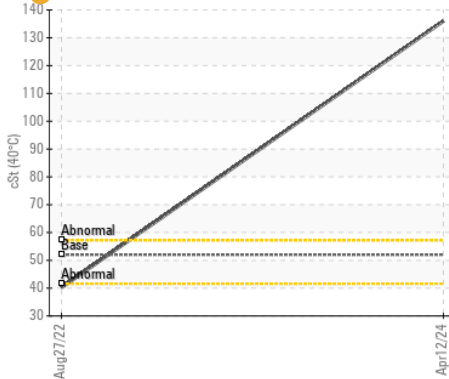
▲ Copper (ppm)



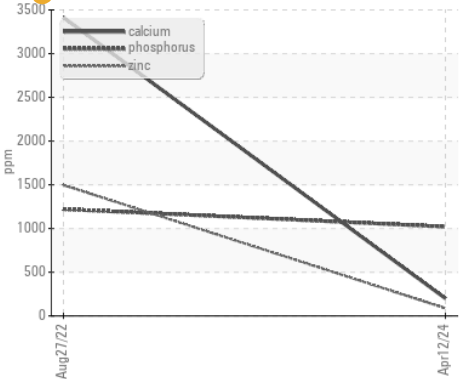
▲ Silicon (ppm)



● Viscosity @ 40°C



● Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP436409

Lab Number : 06154825

Unique Number : 10990248

Test Package : MOB 1

Received : 19 Apr 2024

Tested : 22 Apr 2024

Diagnosed : 23 Apr 2024 - Don Baldrige

ALTA EQUIPMENT CO - ORLAND PARK

5000 INDUSTRIAL HWY

GARY, IN

US 46406

Contact: DAVE ENG

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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)