



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area

[730409 RENTALS]

Machine Id

VOLVO A25G 752678

Component

Bogie/Center Axle

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. 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		VCP439845	VCP440253	---
Sample Date		Client Info		08 Jul 2024	06 Oct 2023	---
Machine Age	hrs	Client Info		2073	803	---
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

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	328	242	---
Chromium	ppm	ASTM D5185m	>10	5	5	---
Nickel	ppm	ASTM D5185m	>10	3	3	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	0	0	---
Lead	ppm	ASTM D5185m	>25	0	<1	---
Copper	ppm	ASTM D5185m	>50	▲ 57	36	---
Tin	ppm	ASTM D5185m	>10	1	2	---
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.

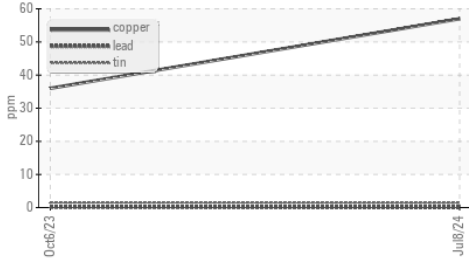
Silicon	ppm	ASTM D5185m	>75	5	5	---
Potassium	ppm	ASTM D5185m	>20	3	5	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

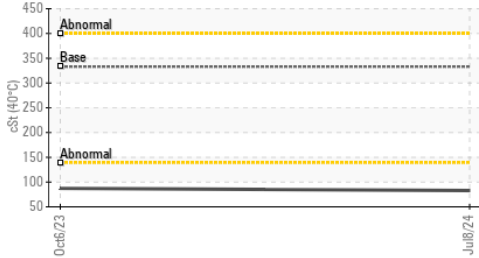
The oil viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	0	---
Boron	ppm	ASTM D5185m	111	203	224	---
Barium	ppm	ASTM D5185m	0.0	5	6	---
Molybdenum	ppm	ASTM D5185m	0.9	4	4	---
Manganese	ppm	ASTM D5185m	0.0	9	8	---
Magnesium	ppm	ASTM D5185m	39	5	3	---
Calcium	ppm	ASTM D5185m	93	872	836	---
Phosphorus	ppm	ASTM D5185m	920	1285	1265	---
Zinc	ppm	ASTM D5185m	104	358	361	---
Sulfur	ppm	ASTM D5185m	20179	20620	19418	---
Visc @ 40°C	cSt	ASTM D445	333	● 82.9	87.4	---

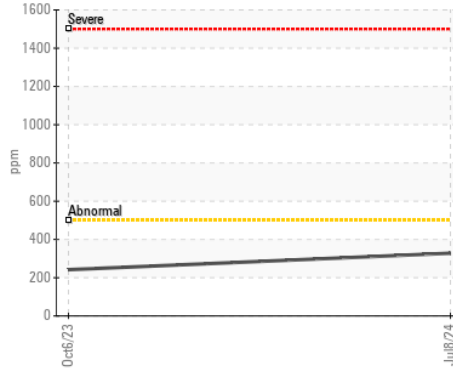
▲ Non-ferrous Metals



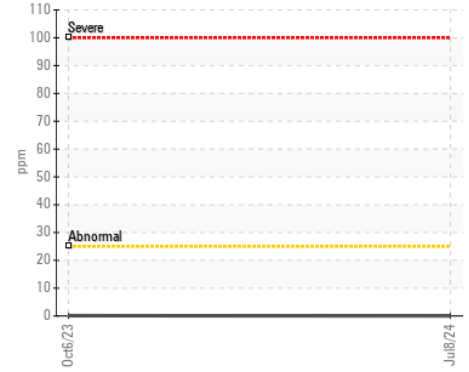
● Viscosity @ 40°C



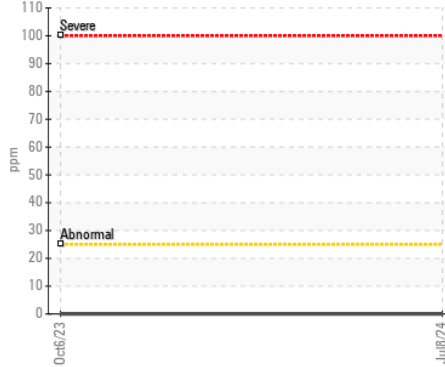
Iron (ppm)



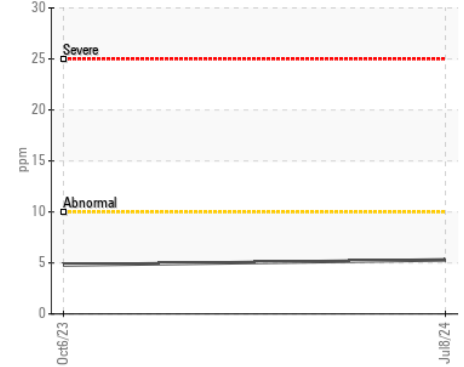
Lead (ppm)



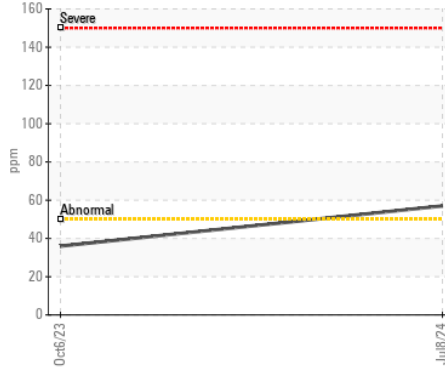
Aluminum (ppm)



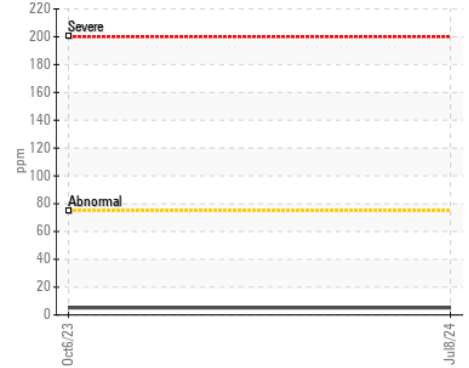
Chromium (ppm)



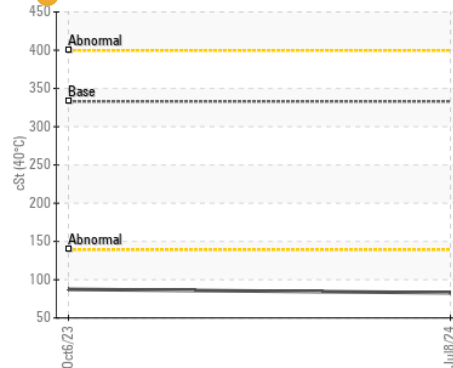
▲ Copper (ppm)



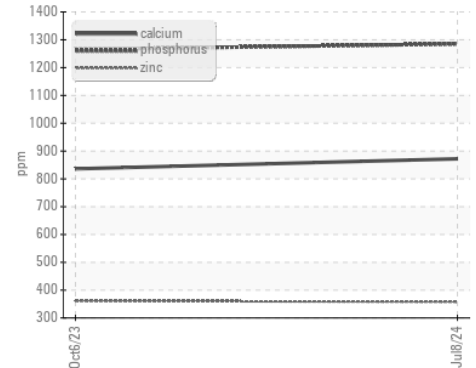
Silicon (ppm)



● Viscosity @ 40°C



Additives



Certificate L2367

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

Sample No. : VCP439845

Lab Number : 06239465

Unique Number : 11128299

Test Package : MOB 1

Received : 17 Jul 2024

Tested : 18 Jul 2024

Diagnosed : 19 Jul 2024 - Don Baldrige

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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)