



# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>ATTENTION</b>



Machine Id  
**VOLVO A30G A30G-302 (S/N 740188)**  
Component  
**Rear Left Hub**  
Fluid  
**MOBIL 75W90 (--- 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		<b>TLY0002561</b>	TLY0001740	---
Sample Date		Client Info		<b>21 Jun 2024</b>	27 Jun 2023	---
Machine Age	hrs	Client Info		<b>7489</b>	6475	---
Oil Age	hrs	Client Info		<b>7489</b>	1475	---
Filter Age	hrs	Client Info		<b>7489</b>	1475	---
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	---
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	---
Sample Status				<b>ABNORMAL</b>	SEVERE	---

## WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>200	<b>▲ 629</b>	▲ 575	---
Chromium	ppm	ASTM D5185m	>10	<b>8</b>	8	---
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	5	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m		<b>43</b>	38	---
Tin	ppm	ASTM D5185m		<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

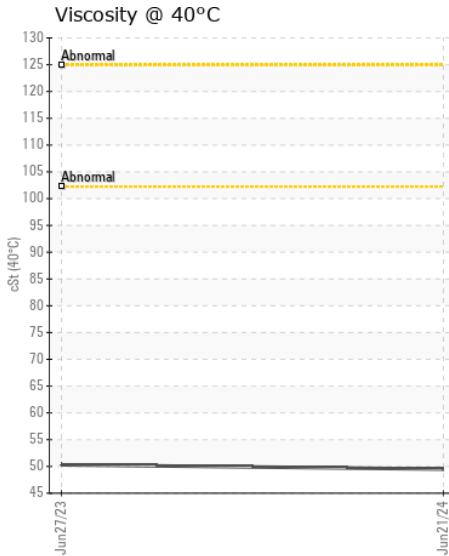
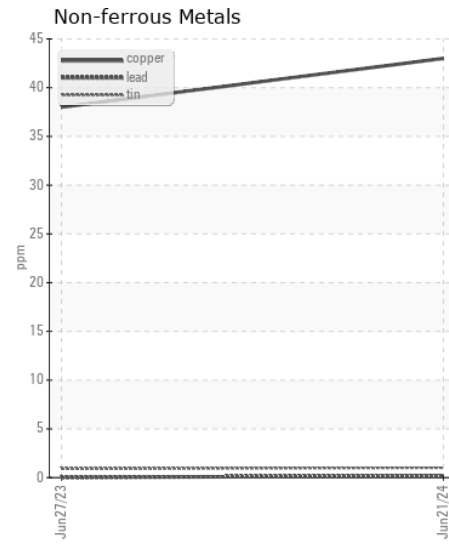
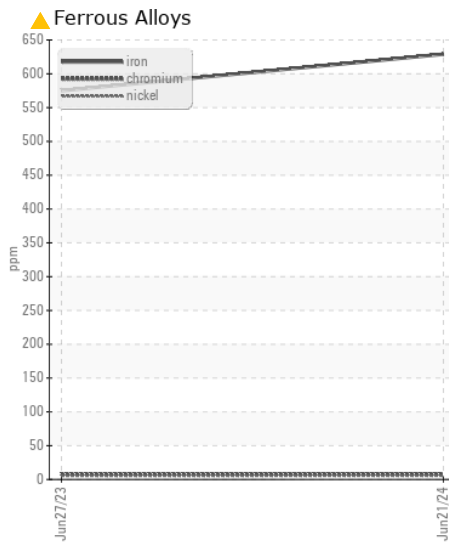
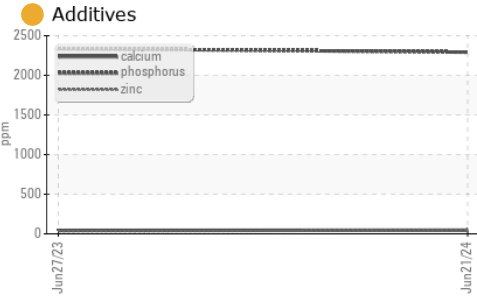
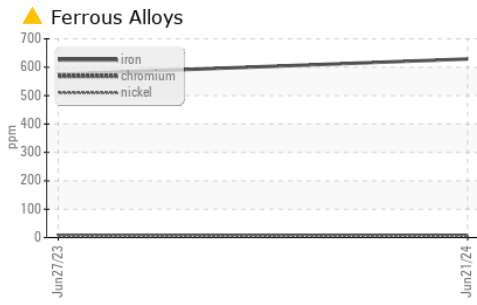
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>12</b>	13	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>4</b>	2	---
Boron	ppm	ASTM D5185m		<b>136</b>	188	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>17</b>	18	---
Magnesium	ppm	ASTM D5185m		<b>● &lt;1</b>	0	---
Calcium	ppm	ASTM D5185m		<b>47</b>	● 44	---
Phosphorus	ppm	ASTM D5185m		<b>● 2292</b>	● 2338	---
Zinc	ppm	ASTM D5185m		<b>40</b>	● 32	---
Sulfur	ppm	ASTM D5185m		<b>29925</b>	25056	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002561  
**Lab Number** : 06221907  
**Unique Number** : 11100104  
**Test Package** : CONST  
**Received** : 26 Jun 2024  
**Tested** : 28 Jun 2024  
**Diagnosed** : 28 Jun 2024 - Jonathan Hester

**GAINES & COMPANY**  
 112 WESTMINSTER RD  
 REISTERSTOWN, MD  
 US 21136

Contact: LANCE TANCRAITOR  
 ltancraitor@gainesandco.com  
 T: (410)833-9833

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)

F: