



# OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**VOLVO A30G A30G-302 (S/N 740188)**  
Component  
**Middle Right Hub**  
Fluid  
**MOBIL 75W90 (--- GAL)**

## RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TLY0002558</b>	TLY0001741	---
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>SEVERE</b>	SEVERE	---

## WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>200	<b>▲ 454</b>	▲ 450	---
Chromium	ppm	ASTM D5185m	>10	<b>6</b>	5	---
Nickel	ppm	ASTM D5185m	>10	<b>7</b>	6	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m		<b>2</b>	<1	---
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m		<b>91</b>	74	---
Tin	ppm	ASTM D5185m		<b>3</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

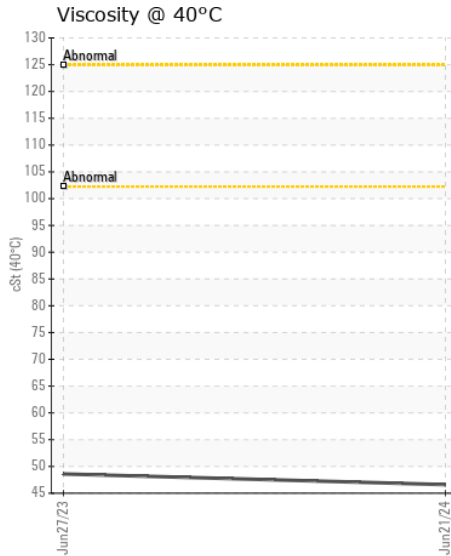
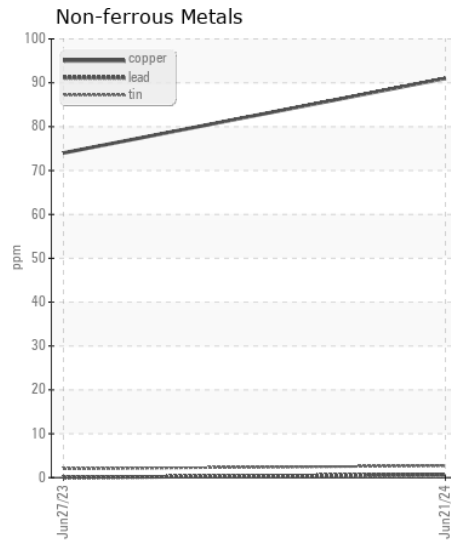
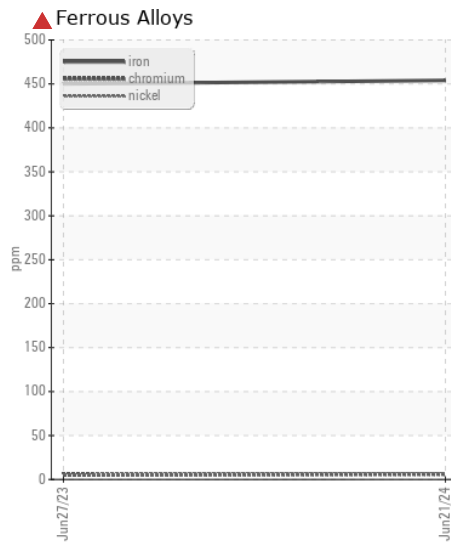
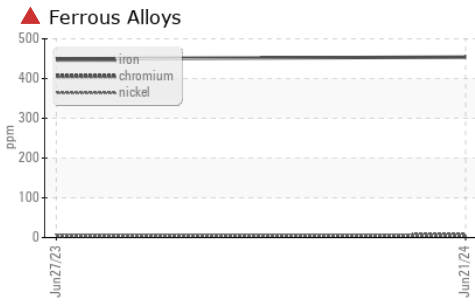
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>8</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
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

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

Sodium	ppm	ASTM D5185m		<b>0</b>	2	---
Boron	ppm	ASTM D5185m		<b>119</b>	153	---
Barium	ppm	ASTM D5185m		<b>1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>13</b>	11	---
Magnesium	ppm	ASTM D5185m		<b>1</b>	0	---
Calcium	ppm	ASTM D5185m		<b>42</b>	● 39	---
Phosphorus	ppm	ASTM D5185m		<b>2028</b>	● 2203	---
Zinc	ppm	ASTM D5185m		<b>35</b>	● 22	---
Sulfur	ppm	ASTM D5185m		<b>27920</b>	25056	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002558  
**Lab Number** : 06221885  
**Unique Number** : 11100082  
**Test Package** : CONST

**Received** : 26 Jun 2024  
**Tested** : 29 Jun 2024  
**Diagnosed** : 29 Jun 2024 - Don Baldrige

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

Contact: LANCE TANCRAITOR  
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 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)

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