



# OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A30G A30G-302 (S/N 740188)**  
Component  
**Brake**  
Fluid  
**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		<b>TLY0002556</b>	TLY0002013	TLY0001769
Sample Date		Client Info		<b>20 Jun 2024</b>	21 Nov 2023	27 Jun 2023
Machine Age	hrs	Client Info		<b>7489</b>	6979	6475
Oil Age	hrs	Client Info		<b>7489</b>	979	1475
Filter Age	hrs	Client Info		<b>7489</b>	979	1475
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>32</b>	31	21
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	3	<1
Lead	ppm	ASTM D5185m	>50	<b>4</b>	3	<1
Copper	ppm	ASTM D5185m	>200	<b>▲ 240</b>	<b>▲ 224</b>	<b>▲ 210</b>
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

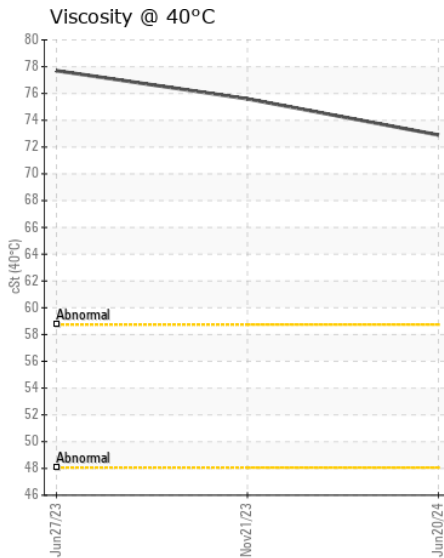
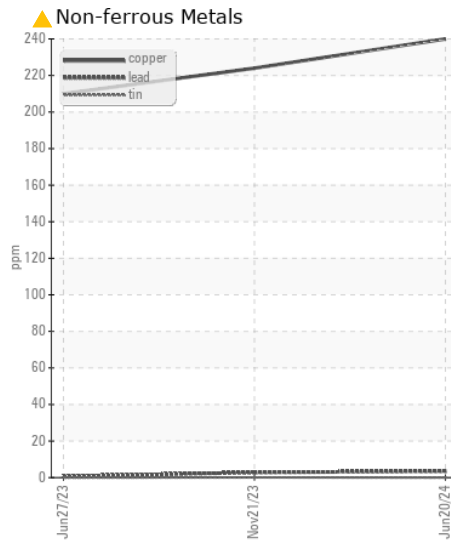
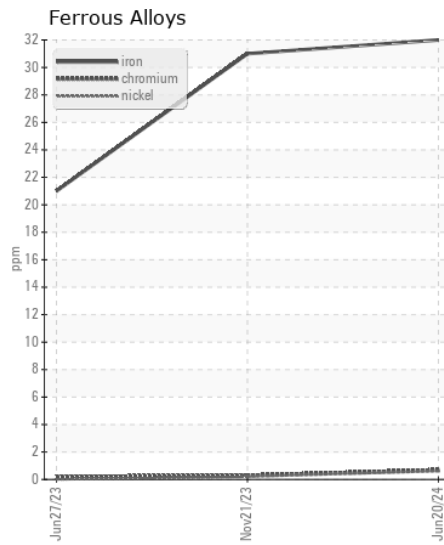
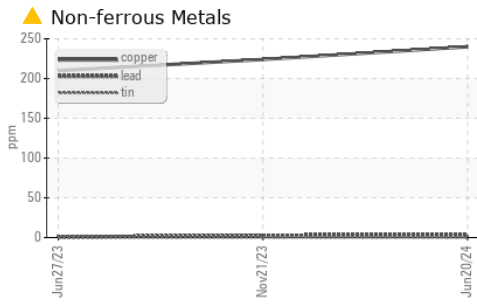
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	<b>18</b>	15	12
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>3</b>	2	1
Boron	ppm	ASTM D5185m	160	<b>54</b>	55	63
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	25	<b>6</b>	6	6
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	12	<b>66</b>	62	65
Calcium	ppm	ASTM D5185m	3750	<b>2726</b>	2601	2744
Phosphorus	ppm	ASTM D5185m	1200	<b>998</b>	993	946
Zinc	ppm	ASTM D5185m	1500	<b>1117</b>	1113	1167
Sulfur	ppm	ASTM D5185m	6000	<b>6494</b>	5525	6772



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002556 **Received** : 26 Jun 2024  
**Lab Number** : 06221898 **Tested** : 28 Jun 2024  
**Unique Number** : 11100095 **Diagnosed** : 28 Jun 2024 - Jonathan Hester  
**Test Package** : CONST

**GAINES & COMPANY**  
 112 WESTMINISTER 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)

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