



# OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO L90G L90G-2 (S/N 617650)**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

## WEAR

All component wear rates are normal.

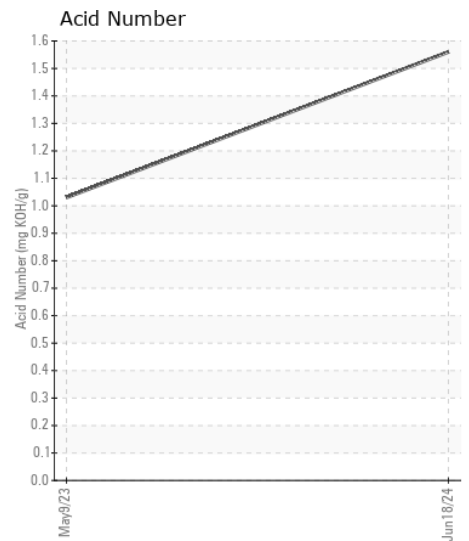
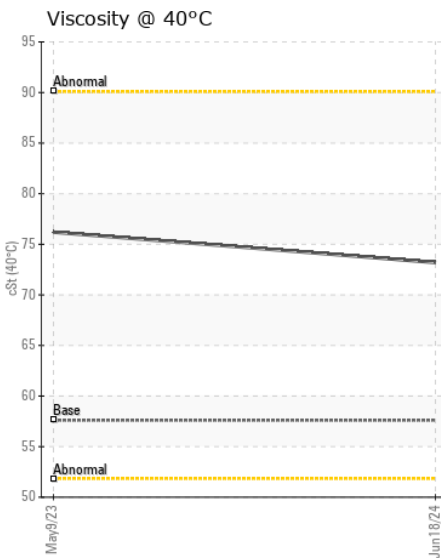
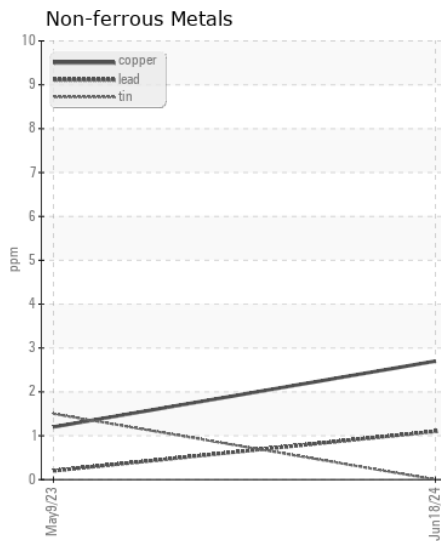
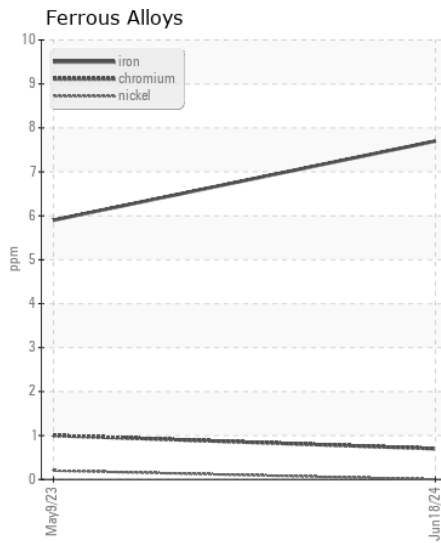
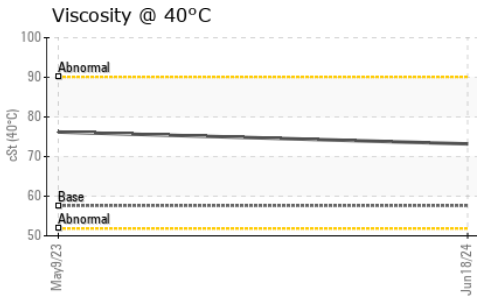
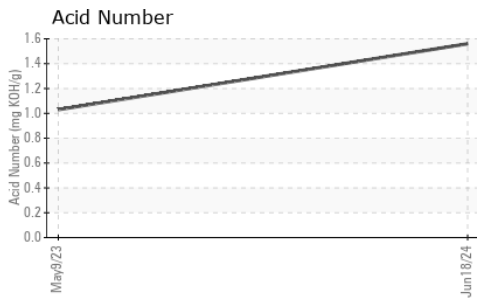
## CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TLY0002495</b>	TLY0001391	---
Sample Date		Client Info		<b>18 Jun 2024</b>	09 May 2023	---
Machine Age	hrs	Client Info		<b>9295</b>	8754	---
Oil Age	hrs	Client Info		<b>8754</b>	754	---
Filter Age	hrs	Client Info		<b>8754</b>	754	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---
Iron	ppm	ASTM D5185m	>50	<b>8</b>	6	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	4	---
Lead	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>150	<b>3</b>	1	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185m	>20	<b>9</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	▲ <b>MODER</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	>0.1	<b>NEG</b>	NEG	---
Sodium	ppm	ASTM D5185m		<b>4</b>	4	---
Boron	ppm	ASTM D5185m		<b>25</b>	25	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>2</b>	3	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>30</b>	29	---
Calcium	ppm	ASTM D5185m		<b>2306</b>	2310	---
Phosphorus	ppm	ASTM D5185m		<b>791</b>	841	---
Zinc	ppm	ASTM D5185m		<b>949</b>	1088	---
Sulfur	ppm	ASTM D5185m		<b>5337</b>	6767	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.56</b>	1.03	---
Visc @ 40°C	cSt	ASTM D445	57.6	<b>73.2</b>	76.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLY0002495 **Received** : 26 Jun 2024  
**Lab Number** : 06221807 **Tested** : 28 Jun 2024  
**Unique Number** : 11100004 **Diagnosed** : 28 Jun 2024 - Don Baldrige  
**Test Package** : CONST

**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)

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