

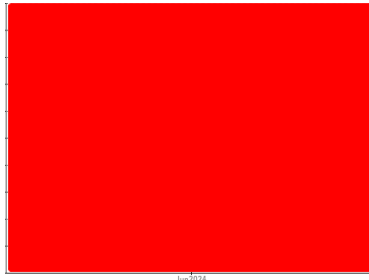
# PROBLEM SUMMARY

Sample Rating Trend

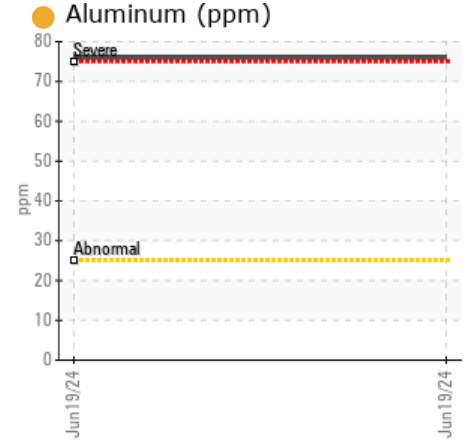
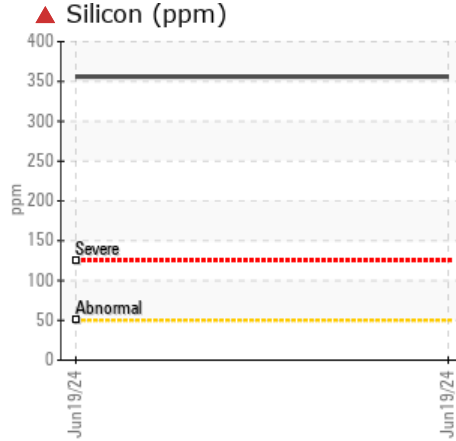
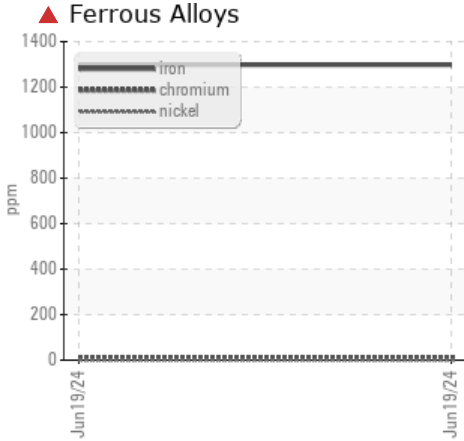
WEAR



Machine Id  
**NOT GIVEN ML0002384 (S/N NO INFO ON SIF/BOTTLE)**  
 Component  
**Left Final Drive**  
 Fluid  
**GEAR OIL SAE 80W140 (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>200	▲ 1298	---	---
Silicon	ppm	ASTM D5185m	>50	▲ 356	---	---

Customer Id: VOLVO0002  
 Sample No.: ML0002384  
 Lab Number: 06216377  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS

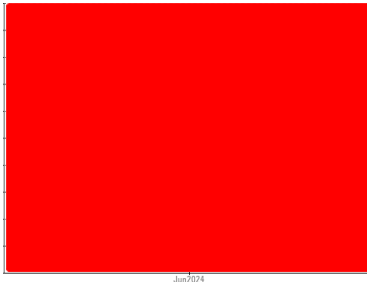
# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id  
**NOT GIVEN ML0002384 (S/N NO INFO ON SIF/BOTTLE)**  
 Component  
**Left Final Drive**  
 Fluid  
**GEAR OIL SAE 80W140 (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### ▲ Wear

Gear wear is indicated.

### ▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ML0002384</b>	---	---
Sample Date	Client Info		<b>19 Jun 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>▲ 1298</b>	---
Chromium	ppm	ASTM D5185m	>10	<b>10</b>	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m		<b>9</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>76</b>	---
Lead	ppm	ASTM D5185m	>50	<b>0</b>	---
Copper	ppm	ASTM D5185m	>200	<b>3</b>	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	<b>155</b>	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m	12	<b>5</b>	---
Manganese	ppm	ASTM D5185m		<b>8</b>	---
Magnesium	ppm	ASTM D5185m	12	<b>42</b>	---
Calcium	ppm	ASTM D5185m	150	<b>145</b>	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1059</b>	---
Zinc	ppm	ASTM D5185m	125	<b>99</b>	---
Sulfur	ppm	ASTM D5185m	22500	<b>33035</b>	---

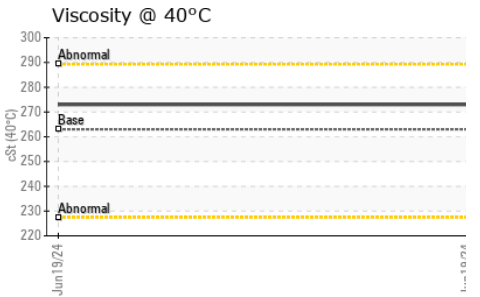
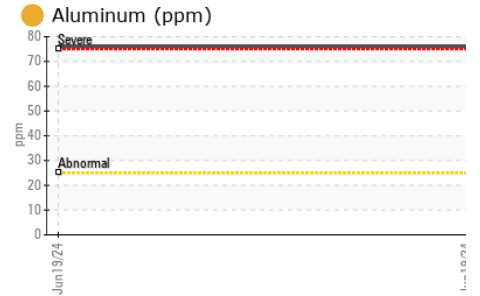
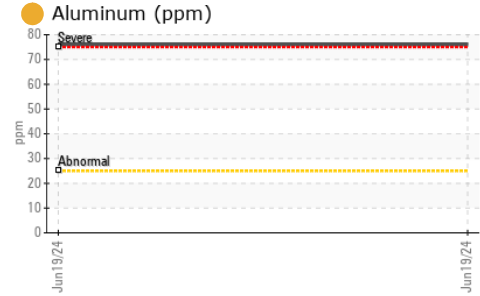
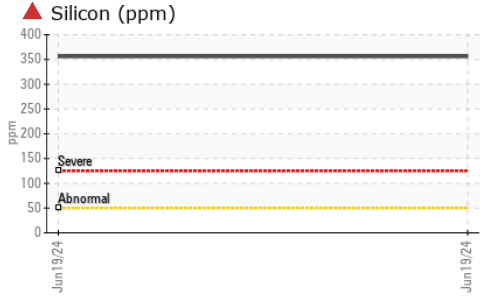
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>▲ 356</b>	---
Sodium	ppm	ASTM D5185m		<b>11</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>21</b>	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---

# OIL ANALYSIS REPORT

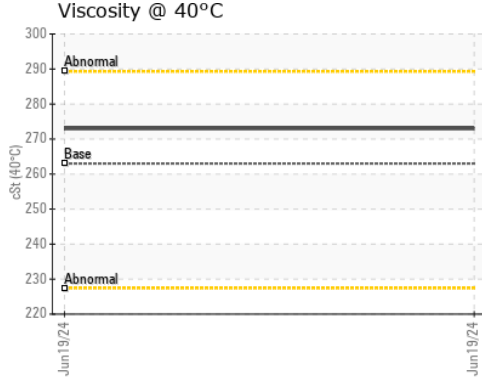
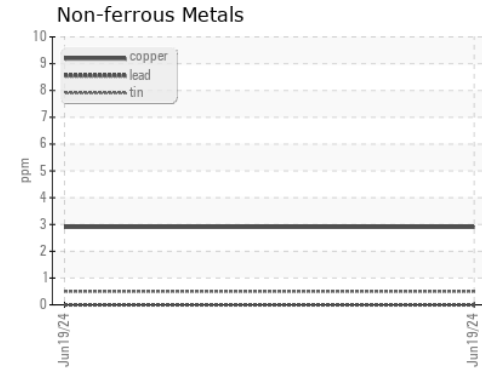
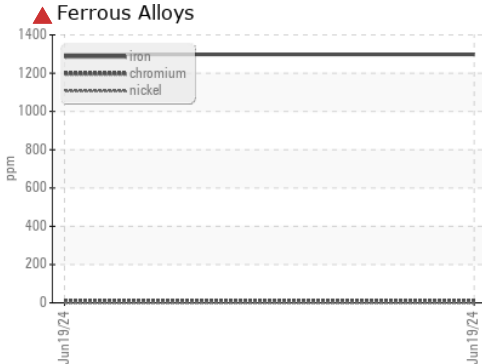


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 263	<b>273</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002384  
**Lab Number** : 06216377  
**Unique Number** : 11089241  
**Test Package** : CONST

**Received** : 20 Jun 2024  
**Tested** : 21 Jun 2024  
**Diagnosed** : 23 Jun 2024 - Don Baldrige

**MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS**  
 8450 QUARRY ROAD  
 MANASSAS, VA  
 US 20110

Contact: MIKE MAYHUGH  
 MMYAHUGH@MCCLUNG-LOGAN.COM

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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