



**McCLUNG-LOGAN**  
EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

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

Area

**[TITAN]**

Machine Id

**VOLVO EC380E 315909**

Component

**Left Final Drive**

Fluid

**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0002939</b>	---	---
Sample Date		Client Info		<b>08 Jul 2024</b>	---	---
Machine Age	hrs	Client Info		<b>574</b>	---	---
Oil Age	hrs	Client Info		<b>574</b>	---	---
Filter Age	hrs	Client Info		<b>574</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>210</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>7</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>1</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

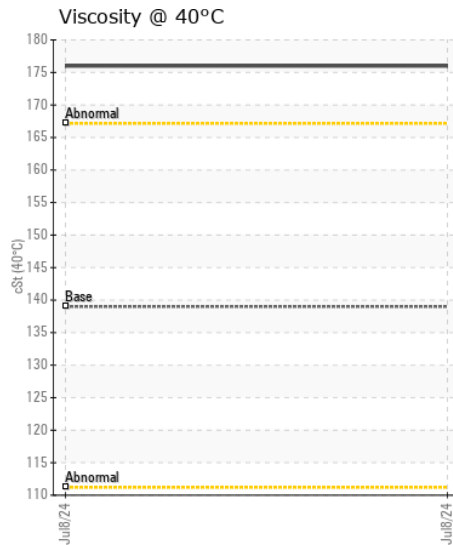
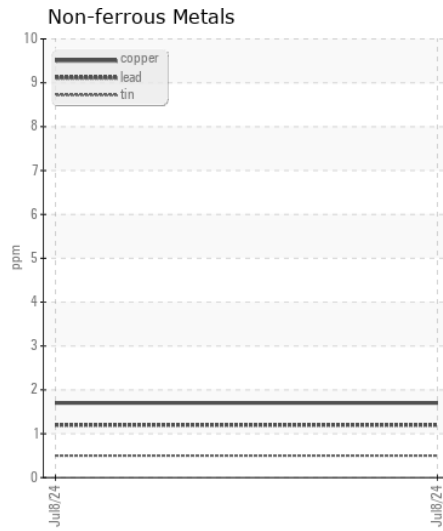
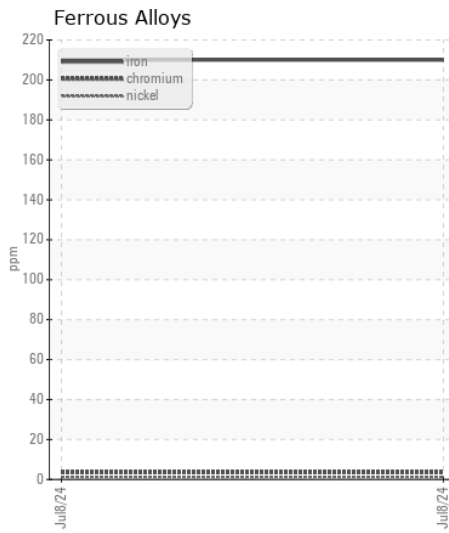
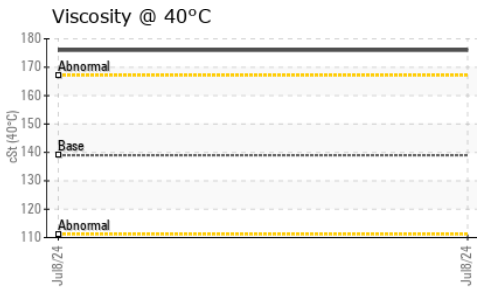
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>34</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	---	---
Water		WC Method	>0.2	<b>NEG</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>	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>4</b>	---	---
Boron	ppm	ASTM D5185m	379	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185m	0.0	<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185m	0.8	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m	0.0	<b>4</b>	---	---
Magnesium	ppm	ASTM D5185m	31	<b>4</b>	---	---
Calcium	ppm	ASTM D5185m	38	<b>16</b>	---	---
Phosphorus	ppm	ASTM D5185m	1077	<b>337</b>	---	---
Zinc	ppm	ASTM D5185m	46	<b>26</b>	---	---
Sulfur	ppm	ASTM D5185m	23526	<b>18676</b>	---	---
Visc @ 40°C	cSt	ASTM D445	139	<b>176</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002939  
**Lab Number** : 06232810  
**Unique Number** : 11116303  
**Test Package** : CONST

**Received** : 10 Jul 2024  
**Tested** : 11 Jul 2024  
**Diagnosed** : 12 Jul 2024 - Sean Felton

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFFE  
 KRATLIFFE@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)

T: (804)266-1611