



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

OIL ANALYSIS REPORT

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



Area  
**[W03008000]**  
Machine Id  
**VOLVO L90 624420**

Component  
**Transmission (Auto)**

Fluid  
**VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (5 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: W03008000 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0002430</b>	---	---
Sample Date		Client Info		<b>19 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>3918</b>	---	---
Oil Age	hrs	Client Info		<b>3918</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

**WEAR**

The iron level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>▲ 218</b>	---	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>50	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>225	<b>11</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</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**

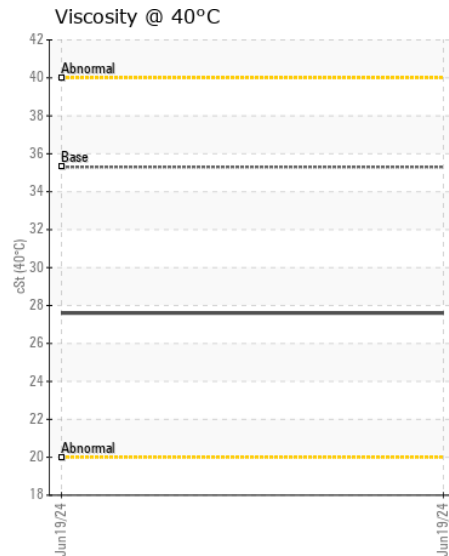
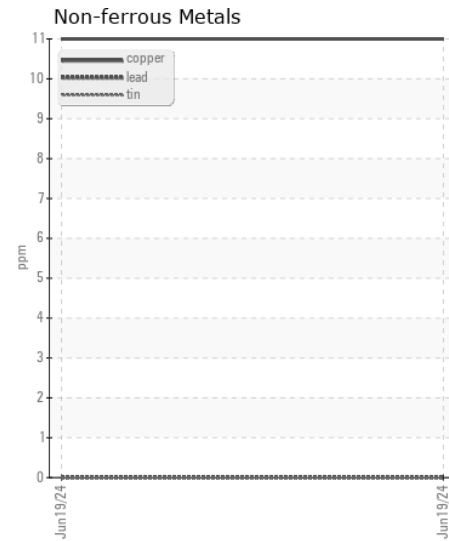
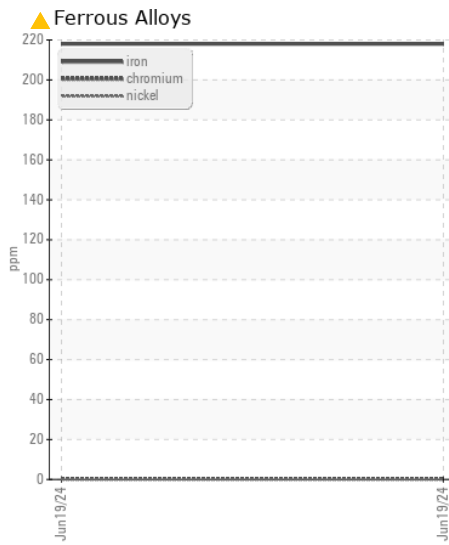
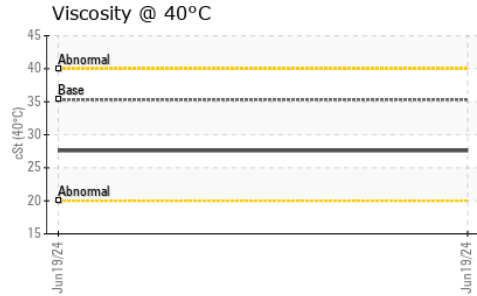
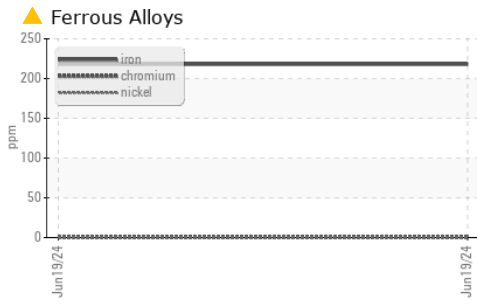
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>11</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	---	---
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>7</b>	---	---
Boron	ppm	ASTM D5185m	187	<b>58</b>	---	---
Barium	ppm	ASTM D5185m	0.0	<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185m	0.0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	0.0	<b>10</b>	---	---
Magnesium	ppm	ASTM D5185m	6.8	<b>3</b>	---	---
Calcium	ppm	ASTM D5185m	215	<b>81</b>	---	---
Phosphorus	ppm	ASTM D5185m	445	<b>217</b>	---	---
Zinc	ppm	ASTM D5185m	56	<b>55</b>	---	---
Sulfur	ppm	ASTM D5185m	1336	<b>2027</b>	---	---
Visc @ 40°C	cSt	ASTM D445	35.3	<b>27.6</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002430  
**Lab Number** : 06216409  
**Unique Number** : 11089273  
**Test Package** : CONST

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

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

Contact: DARRELL ANDES  
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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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