



OIL ANALYSIS REPORT

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



Area  
**[W07014221-1]**  
Machine Id  
**VOLVO A45G 342201**  
Component  
**Transmission (Auto)**  
Fluid  
**VOLVO AT 102 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0000514</b>	VCP399443	VCP395659
Sample Date		Client Info		<b>08 Feb 2024</b>	03 May 2023	01 Dec 2022
Machine Age	hrs	Client Info		<b>0</b>	8572	8000
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>31</b>	35	40
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	4	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>50	<b>12</b>	20	10
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	7
Copper	ppm	ASTM D5185m	>225	<b>11</b>	24	39
Tin	ppm	ASTM D5185m	>10	<b>1</b>	4	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

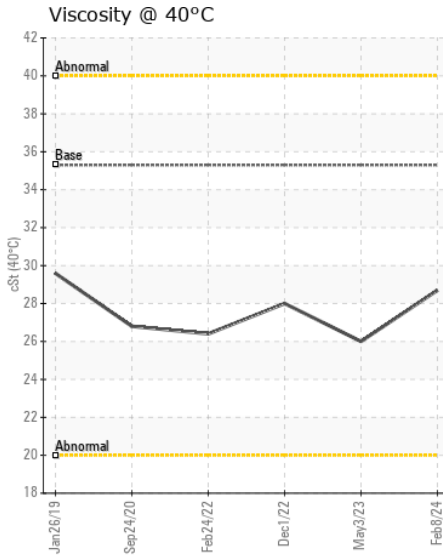
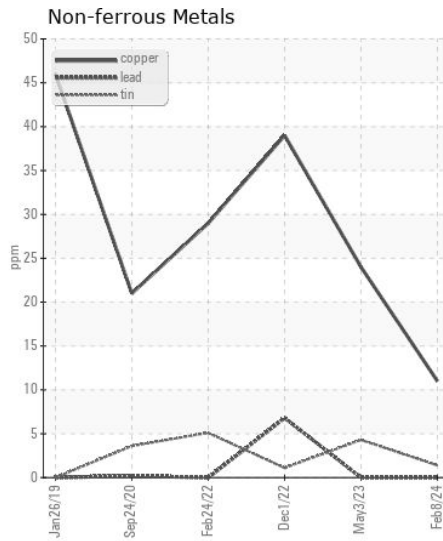
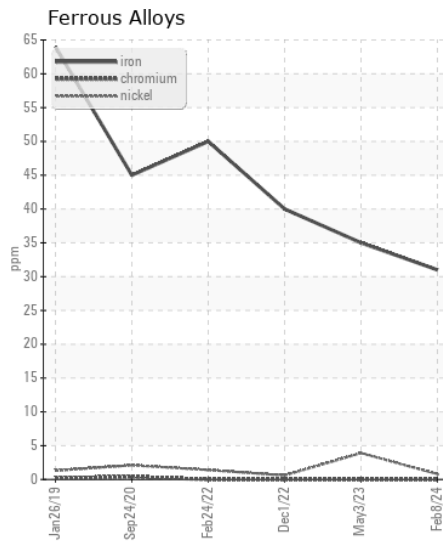
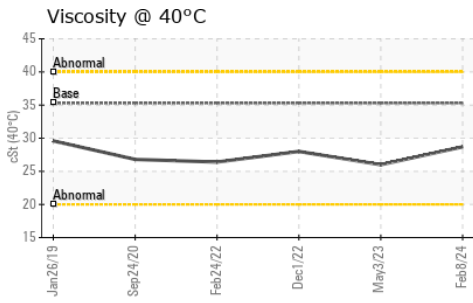
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	4	9
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	4
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>2</b>	6	7
Boron	ppm	ASTM D5185m	187	<b>89</b>	98	108
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	6.8	<b>8</b>	1	<1
Calcium	ppm	ASTM D5185m	215	<b>106</b>	102	116
Phosphorus	ppm	ASTM D5185m	445	<b>200</b>	233	232
Zinc	ppm	ASTM D5185m	56	<b>13</b>	0	25
Sulfur	ppm	ASTM D5185m	1336	<b>1761</b>	2427	1954
Visc @ 40°C	cSt	ASTM D445	35.3	<b>28.7</b>	26.0	28.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0000514  
**Lab Number** : 06087817  
**Unique Number** : 10875262  
**Test Package** : CONST

**Received** : 13 Feb 2024  
**Tested** : 14 Feb 2024  
**Diagnosed** : 15 Feb 2024 - Jonathan Hester

**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:  
 F: (804)266-1611