



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



Area  
**[W05004186]**  
Machine Id  
**VOLVO A40F 11613**  
Component  
**Transmission (Auto)**  
Fluid  
**VOLVO AT 102 (11 GAL)**

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: W05004186 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0001117</b>	VCP220075	VCP237511
Sample Date		Client Info		<b>02 May 2024</b>	30 Jan 2019	09 Jan 2019
Machine Age	hrs	Client Info		<b>15926</b>	10337	10197
Oil Age	hrs	Client Info		<b>2000</b>	0	0
Filter Age	hrs	Client Info		<b>1000</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

**WEAR**

Clutch and/or bushing/bearing wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>24</b>	14	7
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>50	<b>11</b>	7	5
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>225	<b>▲ 270</b>	135	133
Tin	ppm	ASTM D5185m	>10	<b>▲ 13</b>	0	8
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

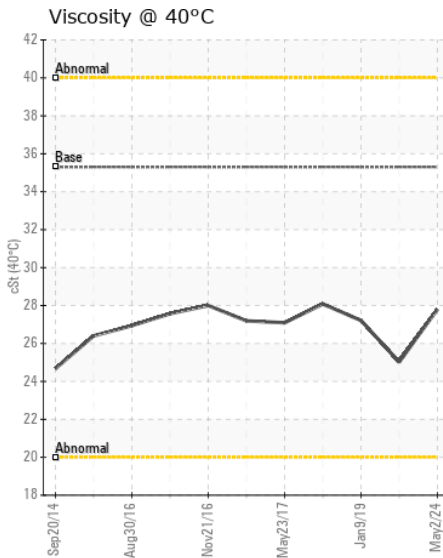
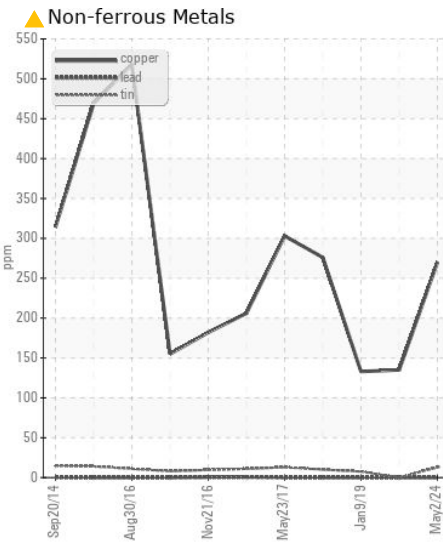
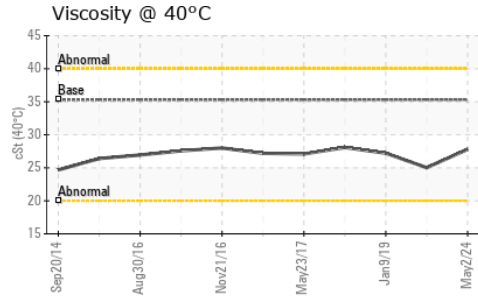
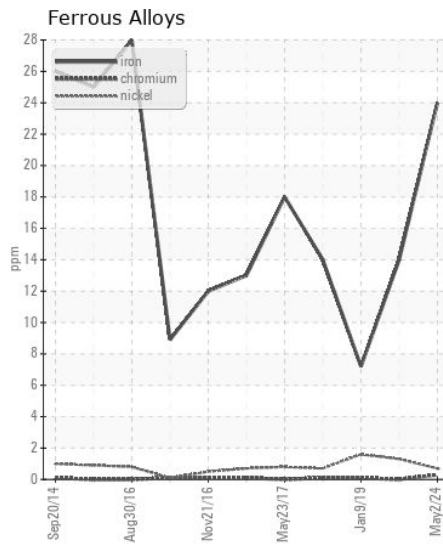
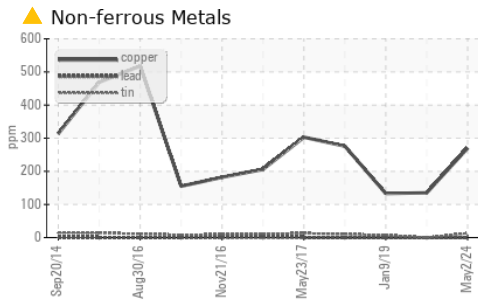
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	10	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
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>	<b>▲ MODER</b>	NONE
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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>1</b>	8	3
Boron	ppm	ASTM D5185m	187	<b>111</b>	61	73
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	1	<1
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	6.8	<b>1</b>	9	<1
Calcium	ppm	ASTM D5185m	215	<b>80</b>	304	78
Phosphorus	ppm	ASTM D5185m	445	<b>213</b>	290	154
Zinc	ppm	ASTM D5185m	56	<b>4</b>	64	3
Sulfur	ppm	ASTM D5185m	1336	<b>1997</b>	2150	1453
Visc @ 40°C	cSt	ASTM D445	35.3	<b>27.8</b>	25.02	27.21



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001117  
**Lab Number** : 06174428  
**Unique Number** : 11020481  
**Test Package** : CONST

**Received** : 09 May 2024  
**Tested** : 10 May 2024  
**Diagnosed** : 13 May 2024 - Don Baldrige

**MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS**  
 8450 QUARRY ROAD  
 MANASSAS, VA  
 US 20110  
 Contact: MIKE MAYHUGH  
 MMAYHUGH@MCCLUNG-LOGAN.COM  
 T: (703)393-7344  
 F: (703)393-7844

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)