



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



Machine Id  
**VOLVO A40G 341113**  
Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0001621</b>	---	---
Sample Date		Client Info		<b>24 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>9902</b>	---	---
Oil Age	hrs	Client Info		<b>2000</b>	---	---
Filter Age	hrs	Client Info		<b>2000</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>16</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Lead	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>150	<b>7</b>	---	---
Tin	ppm	ASTM D5185m	>20	<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**

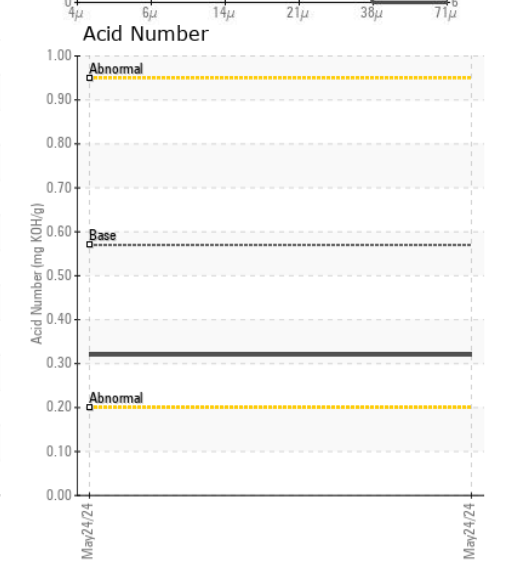
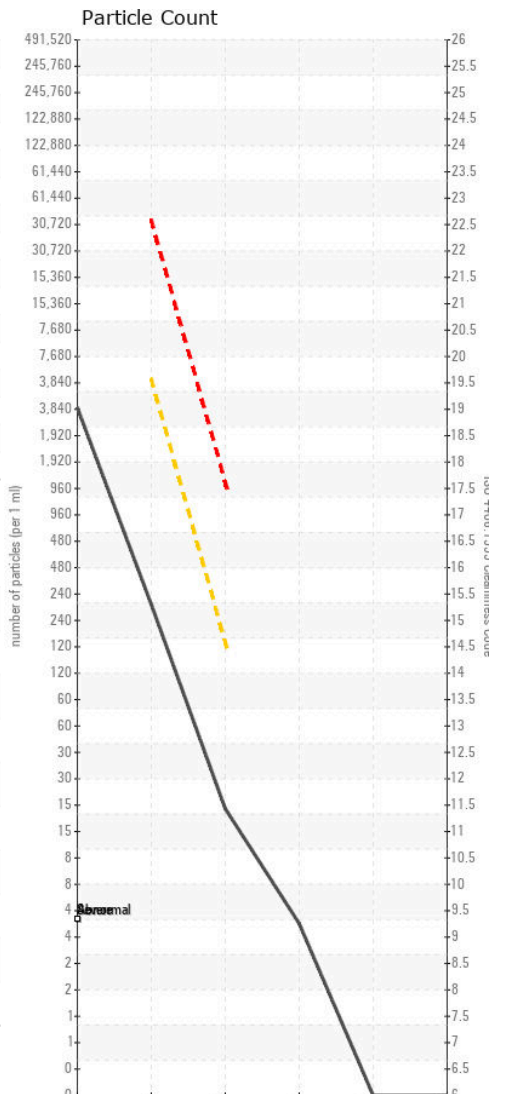
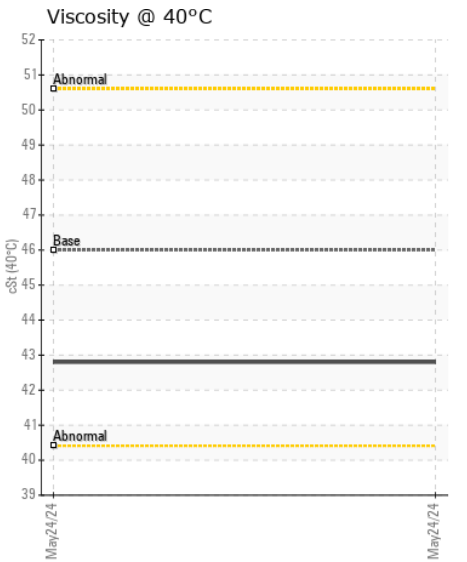
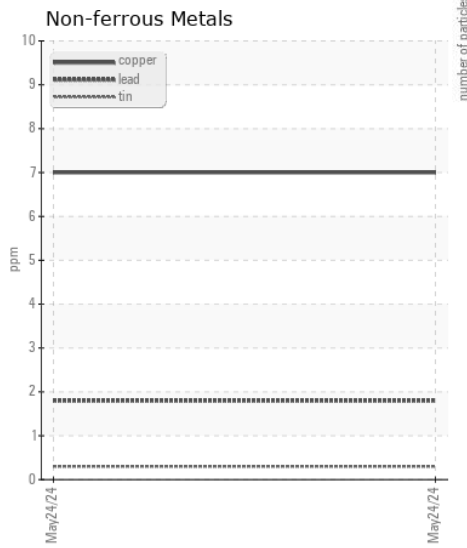
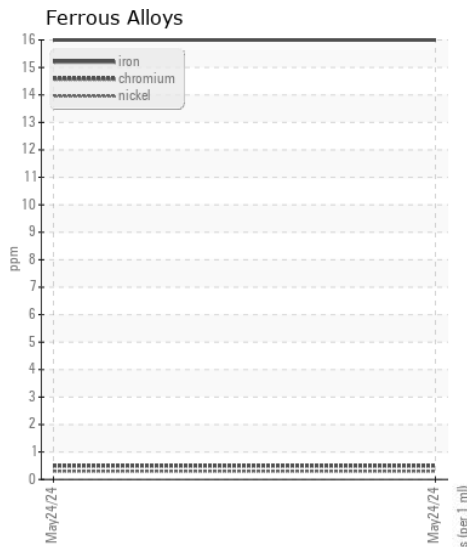
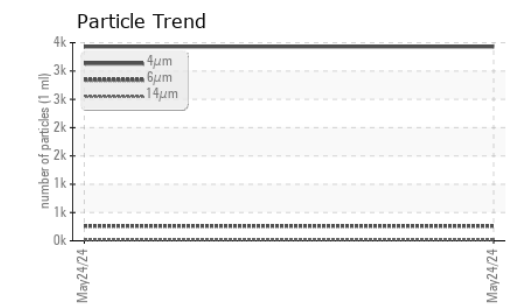
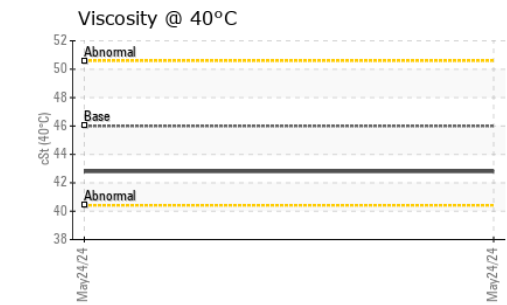
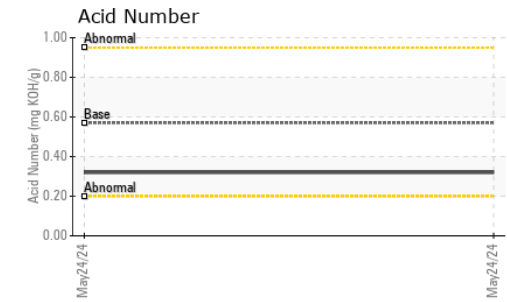
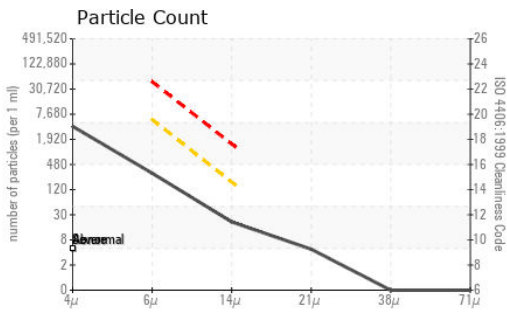
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>14</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647		<b>3429</b>	---	---
Particles >6µm		ASTM D7647	>5000	<b>261</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>18</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>4</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>-/19/14	<b>19/15/11</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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Boron	ppm	ASTM D5185m	5	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	25	<b>3</b>	---	---
Calcium	ppm	ASTM D5185m	200	<b>84</b>	---	---
Phosphorus	ppm	ASTM D5185m	300	<b>339</b>	---	---
Zinc	ppm	ASTM D5185m	370	<b>449</b>	---	---
Sulfur	ppm	ASTM D5185m	2500	<b>2567</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.32</b>	---	---
Visc @ 40°C	cSt	ASTM D445	46	<b>42.8</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001621  
**Lab Number** : 06195332  
**Unique Number** : 11057455  
**Test Package** : CONST

**Received** : 30 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 01 Jun 2024 - Don Baldrige

**MCCLUNG-LOGAN EQUIPMENT CO - SALEM**  
 2025 COOK DRIVE  
 SALEM, VA  
 US 24153

Contact: SCOTT CARR  
 scarr@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: (540)418-5218

F: