



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



Machine Id  
**VOLVO A30G 740132**  
Component  
**Hydraulic System**  
Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

**RECOMMENDATION**

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0001116</b>	VCP302534	---
Sample Date		Client Info		<b>22 May 2024</b>	18 May 2021	---
Machine Age	hrs	Client Info		<b>0</b>	3976	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>7</b>	10	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Lead	ppm	ASTM D5185m	>20	<b>2</b>	4	---
Copper	ppm	ASTM D5185m	>150	<b>4</b>	8	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

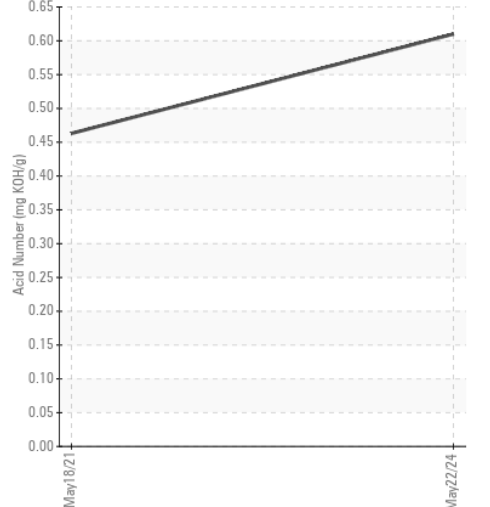
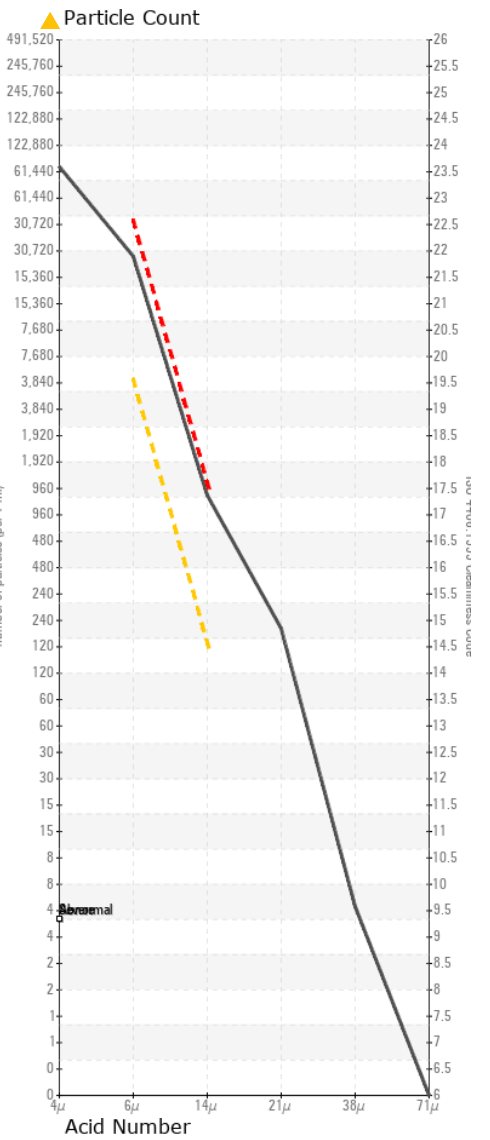
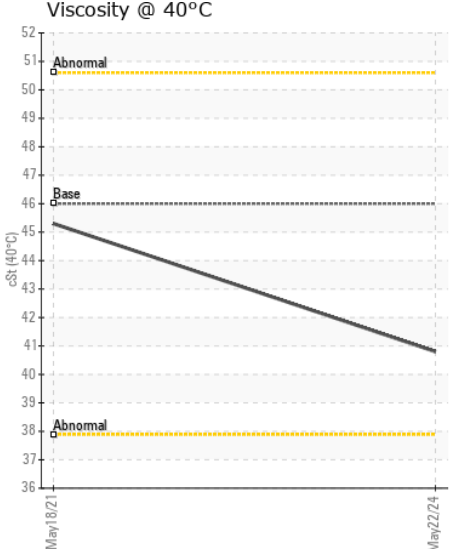
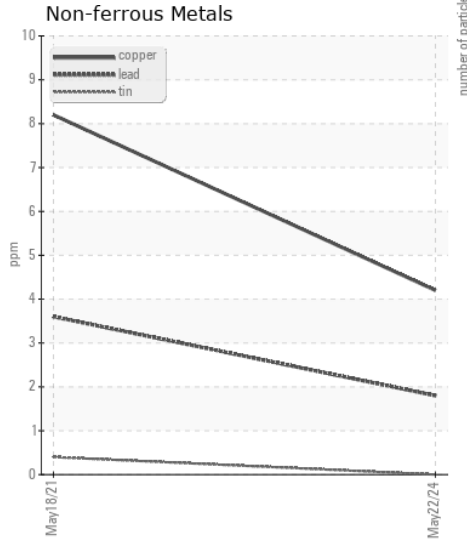
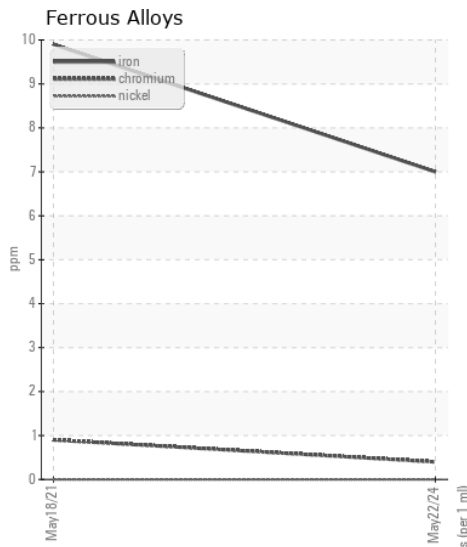
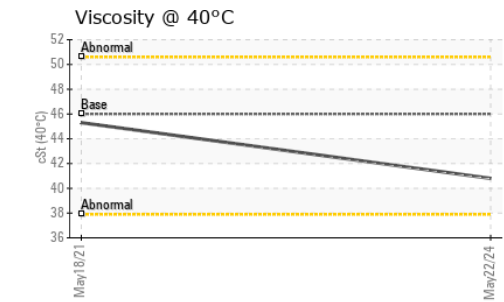
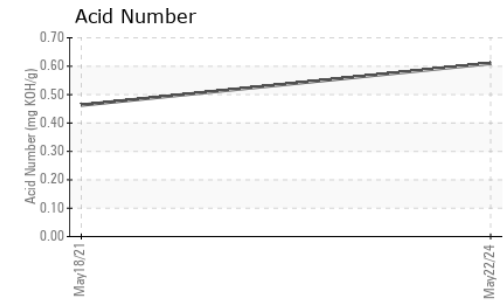
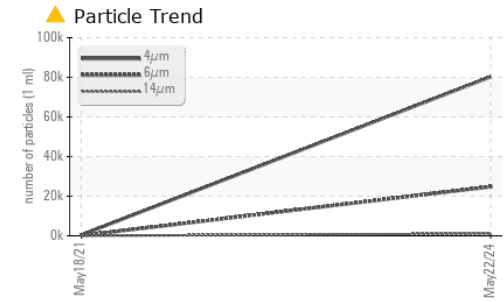
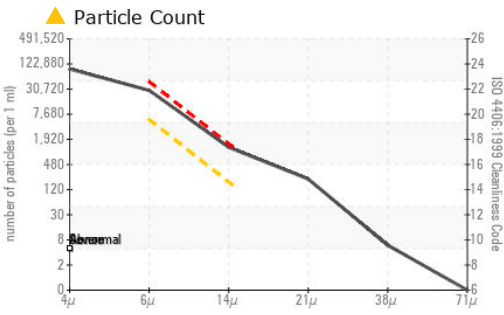
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>8</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647		<b>80251</b>	417	---
Particles >6µm		ASTM D7647	>5000	<b>▲ 24806</b>	80	---
Particles >14µm		ASTM D7647	>160	<b>▲ 1089</b>	16	---
Particles >21µm		ASTM D7647	>40	<b>▲ 190</b>	5	---
Particles >38µm		ASTM D7647	>10	<b>5</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>-/19/14	<b>▲ 24/22/17</b>	16/13/11	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

**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>3</b>	2	---
Boron	ppm	ASTM D5185m	14	<b>0</b>	4	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	2.6	<b>4</b>	2	---
Calcium	ppm	ASTM D5185m	49	<b>1075</b>	69	---
Phosphorus	ppm	ASTM D5185m	354	<b>589</b>	337	---
Zinc	ppm	ASTM D5185m	419	<b>703</b>	433	---
Sulfur	ppm	ASTM D5185m	3719	<b>4163</b>	5744	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.61</b>	0.463	---
Visc @ 40°C	cSt	ASTM D445	46	<b>40.8</b>	45.3	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001116 **Received** : 31 May 2024  
**Lab Number** : 06196610 **Tested** : 03 Jun 2024  
**Unique Number** : 11058733 **Diagnosed** : 03 Jun 2024 - Don Baldrige  
**Test Package** : CONST

**MCCLUNG-LOGAN EQUIPMENT CO - BRIDGEVILLE**  
 17941 SUSSEX HIGHWAY  
 BRIDGEVILLE, DE  
 US 19933  
 Contact: MATT CLARK  
 MCLARK@mcclung-logan.com  
 T: (302)337-3400  
 F: (302)337-9083

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)