



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



Machine Id  
**VOLVO A35G 342028**  
Component  
**Hydraulic System**  
Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0001947</b>	VCP287637	VCP219485
Sample Date		Client Info		<b>09 May 2024</b>	03 Sep 2020	03 Jan 2018
Machine Age	hrs	Client Info		<b>9138</b>	3965	293
Oil Age	hrs	Client Info		<b>2000</b>	0	293
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>10</b>	12	<1
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	2	0
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	<1
Copper	ppm	ASTM D5185m	>150	<b>3</b>	9	3
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<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**

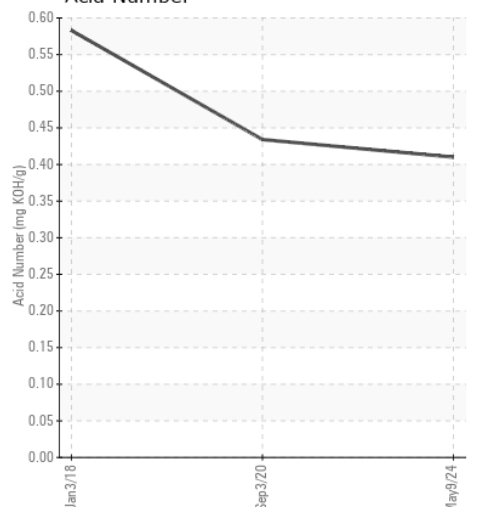
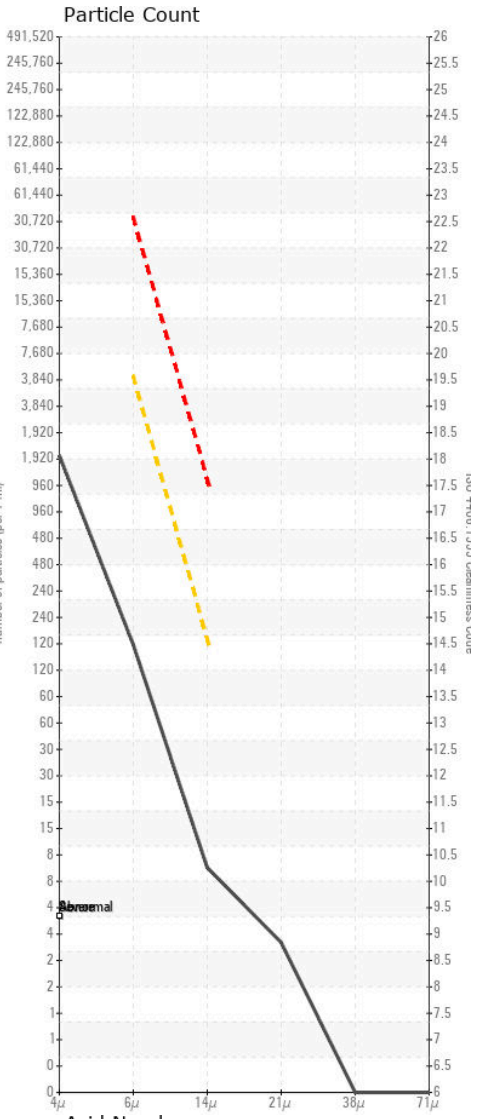
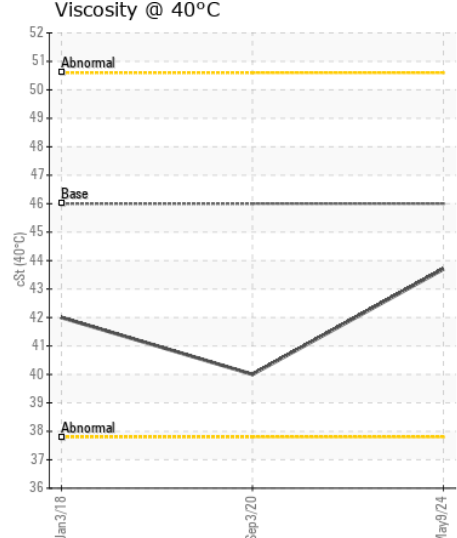
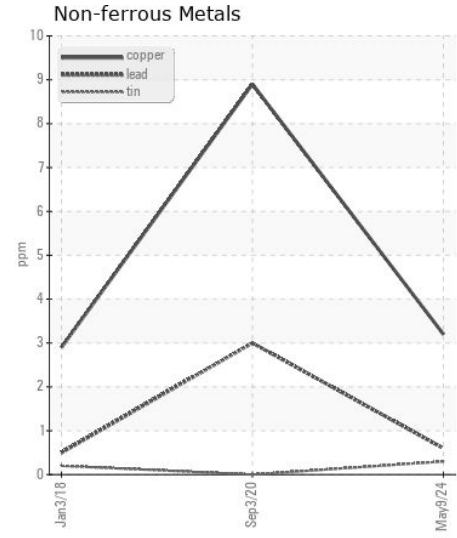
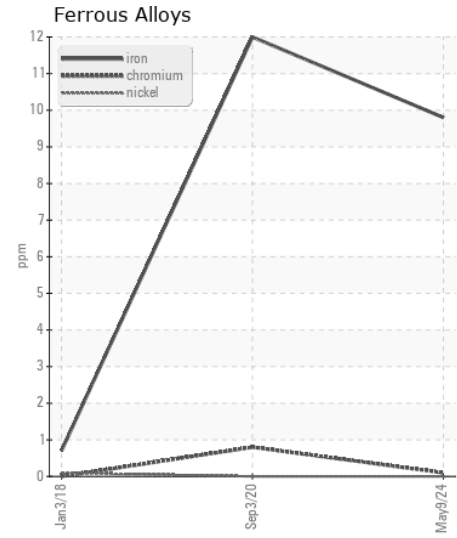
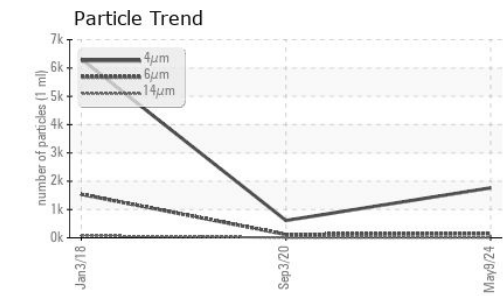
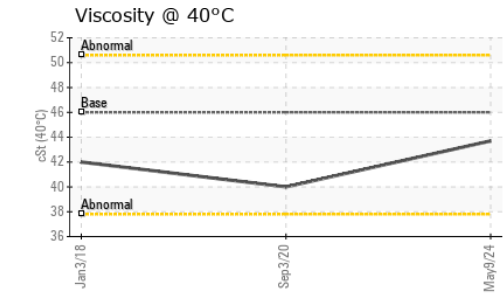
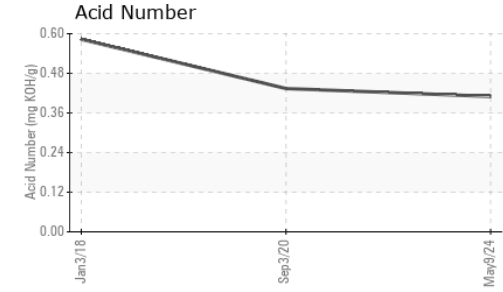
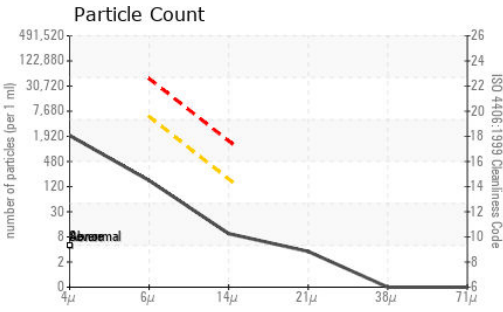
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	9	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	5	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>1764</b>	612	6317
Particles >6µm		ASTM D7647	>5000	<b>148</b>	118	1538
Particles >14µm		ASTM D7647	>160	<b>8</b>	6	76
Particles >21µm		ASTM D7647	>40	<b>3</b>	3	18
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	5
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	5
Oil Cleanliness		ISO 4406 (c)	>-/19/14	<b>18/14/10</b>	16/14/10	20/18/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>4</b>	3	1
Boron	ppm	ASTM D5185m	14	<b>7</b>	<1	<1
Barium	ppm	ASTM D5185m	0.0	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>3</b>	0	0
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	2.6	<b>47</b>	2	0
Calcium	ppm	ASTM D5185m	49	<b>244</b>	68	56
Phosphorus	ppm	ASTM D5185m	354	<b>374</b>	365	329
Zinc	ppm	ASTM D5185m	419	<b>440</b>	456	421
Sulfur	ppm	ASTM D5185m	3719	<b>4688</b>	6400	8629
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.41</b>	0.434	0.583
Visc @ 40°C	cSt	ASTM D445	46	<b>43.7</b>	40.0	42.00



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001947  
**Lab Number** : 06178662  
**Unique Number** : 11029988  
**Test Package** : CONST  
**Received** : 14 May 2024  
**Tested** : 15 May 2024  
**Diagnosed** : 16 May 2024 - Don Baldrige

**MCCUNG-LOGAN EQUIPMENT CO - RICHMOND**  
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Certificate L2367  
 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)