



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[46701]**  
Machine Id  
**VOLVO L60H 621088**  
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>VCP432698</b>	VCP283255	VCP229600
Sample Date		Client Info		<b>13 Dec 2023</b>	14 May 2020	15 Jun 2018
Machine Age	hrs	Client Info		<b>12000</b>	8038	3876
Oil Age	hrs	Client Info		<b>12000</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>8</b>	8	8
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<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>4</b>	7	2
Lead	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Copper	ppm	ASTM D5185m	>150	<b>2</b>	4	6
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	<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

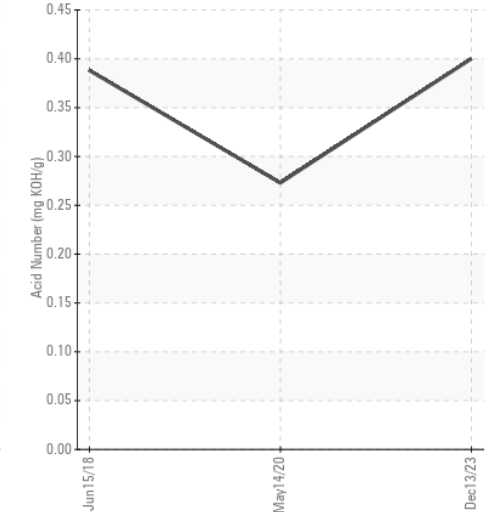
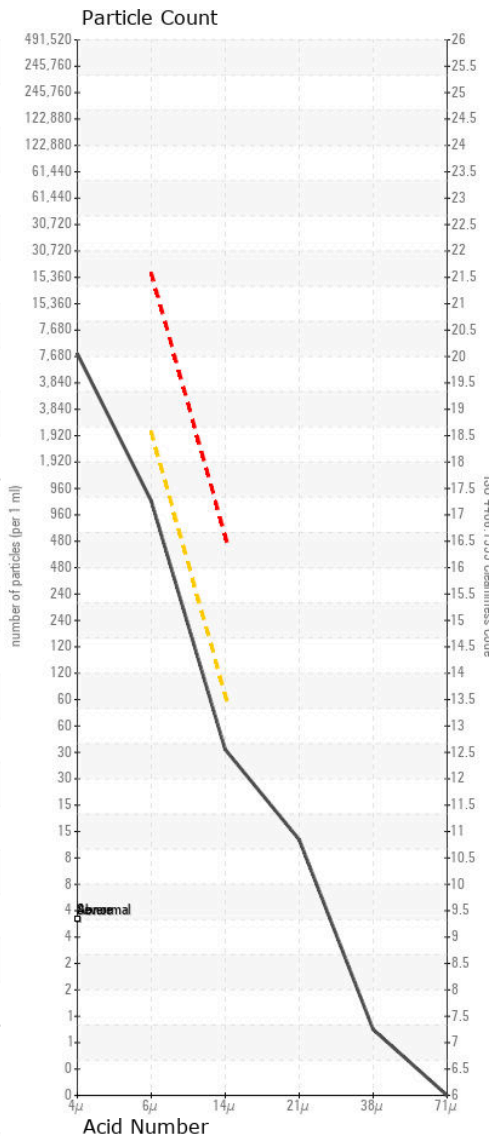
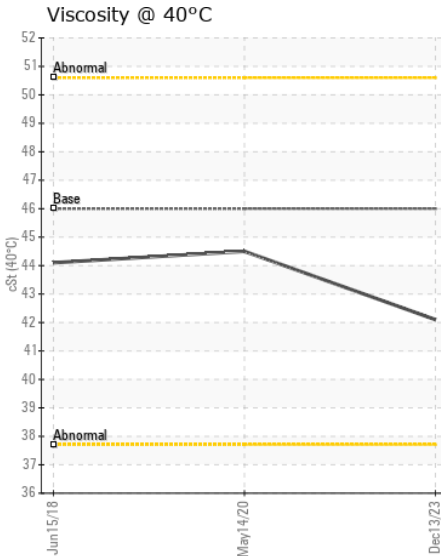
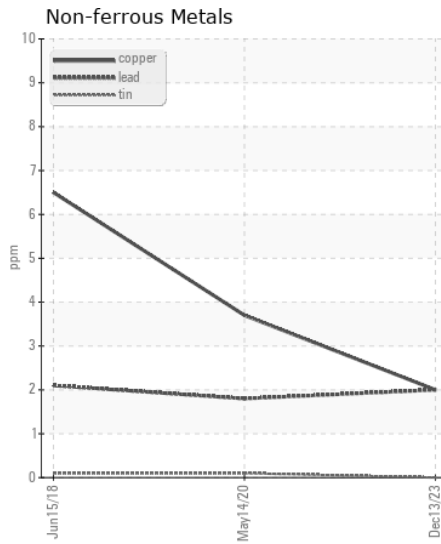
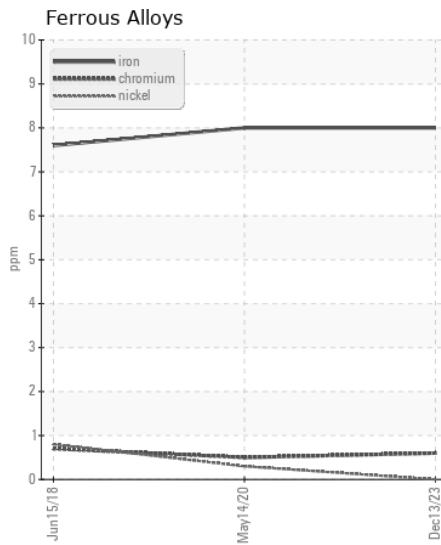
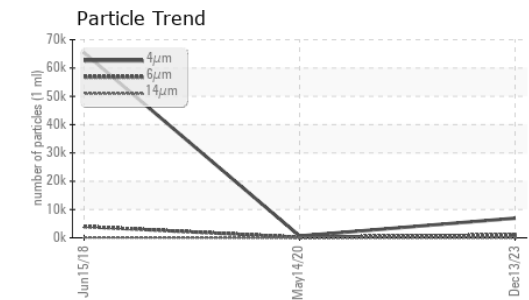
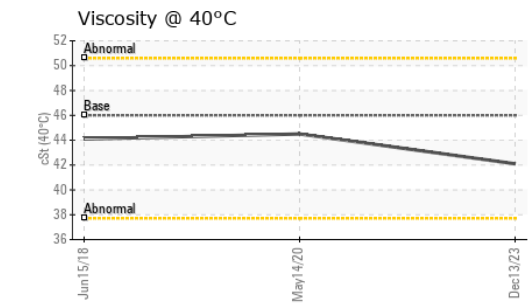
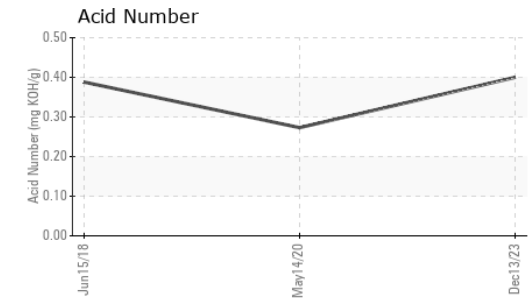
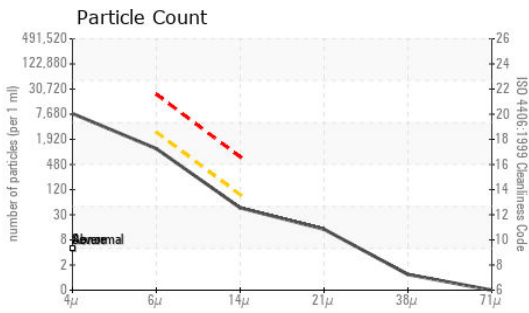
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>8</b>	19	15
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>6925</b>	659	65378
Particles >6µm		ASTM D7647	>2500	<b>1008</b>	175	▲ 3974
Particles >14µm		ASTM D7647	>80	<b>39</b>	11	▲ 151
Particles >21µm		ASTM D7647	>20	<b>12</b>	6	▲ 41
Particles >38µm		ASTM D7647	>4	<b>1</b>	3	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	3	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	<b>20/17/12</b>	17/15/11	▲ 23/19/14
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>	0	<1
Boron	ppm	ASTM D5185m	14	<b>1</b>	<1	1
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>2</b>	<1	0
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	2.6	<b>12</b>	2	<1
Calcium	ppm	ASTM D5185m	49	<b>75</b>	79	144
Phosphorus	ppm	ASTM D5185m	354	<b>345</b>	350	325
Zinc	ppm	ASTM D5185m	419	<b>384</b>	445	412
Sulfur	ppm	ASTM D5185m	3719	<b>1673</b>	2470	2227
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.40</b>	0.273	0.388
Visc @ 40°C	cSt	ASTM D445	46	<b>42.1</b>	44.5	44.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : VCP432698      Recieved : 17 Jan 2024  
 Lab Number : 06062594      Diagnosed : 18 Jan 2024  
 Unique Number : 10833976      Diagnostician : Wes Davis  
 Test Package : MOB 2

365 - ASCENDUM MACHINERY INC - SAVANNAH  
 1627 DEAN FOREST RD  
 SAVANNAH, GA  
 US 31408  
 Contact: JESSE WILSON  
 jesse.wilson@ascendummachinery.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)

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