



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**[SPM701872]**  
 Machine Id  
**VOLVO L350H 1011**  
 Component  
**Hydraulic System**  
 Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP427271	VCP422622	VCP365356
Sample Date		Client Info		15 Apr 2024	18 May 2023	30 Jul 2022
Machine Age	hrs	Client Info		9455	6873	5213
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	7	16	3
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	7	2
Lead	ppm	ASTM D5185m	>20	0	1	<1
Copper	ppm	ASTM D5185m	>150	<1	7	<1
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

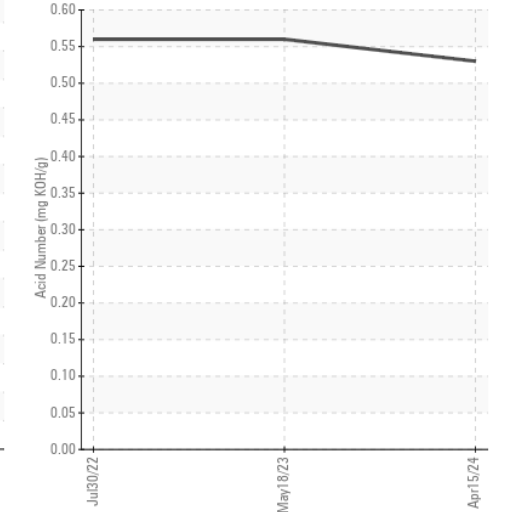
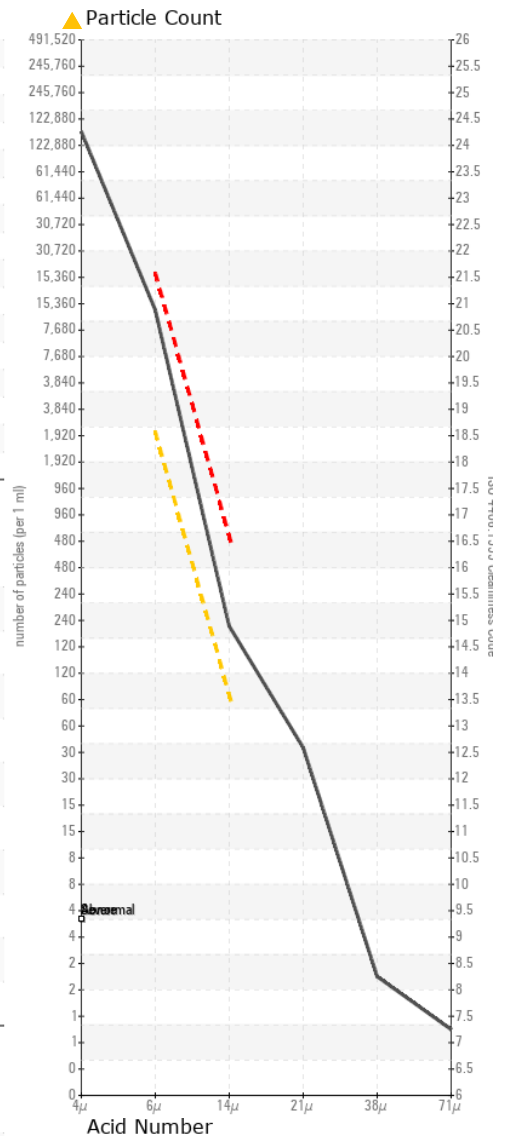
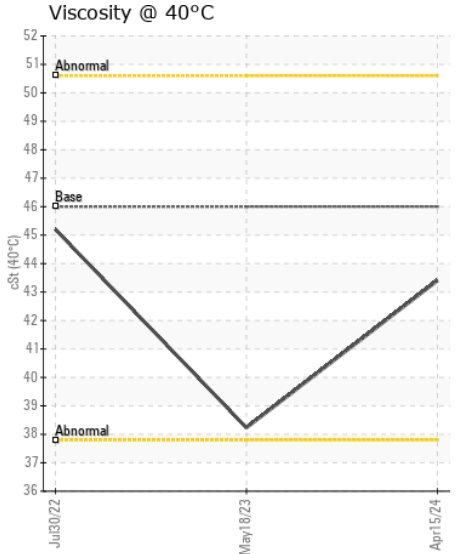
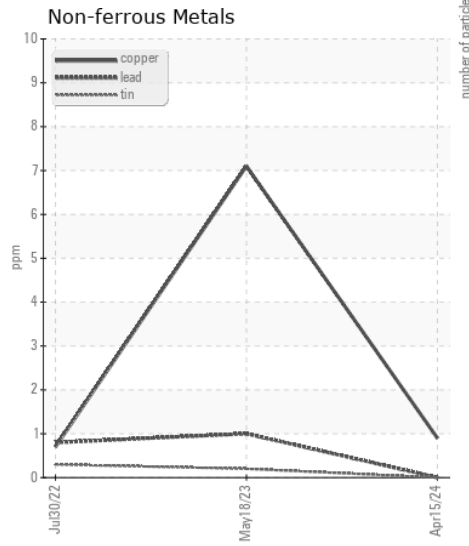
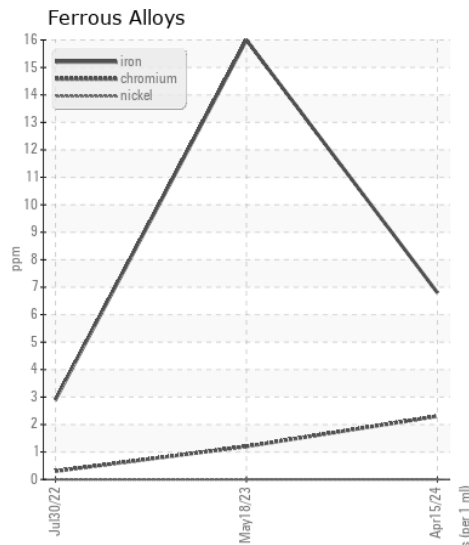
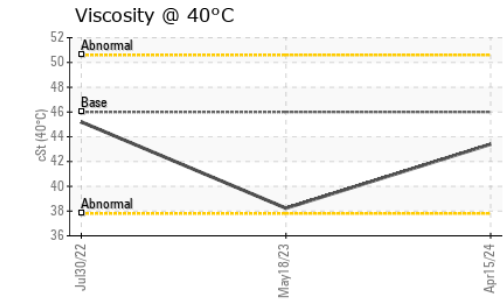
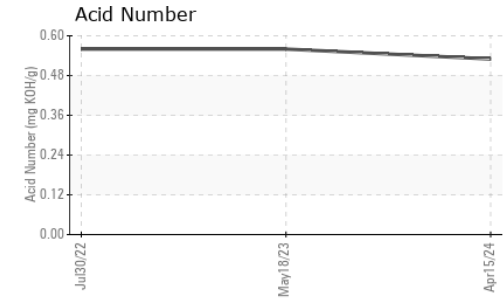
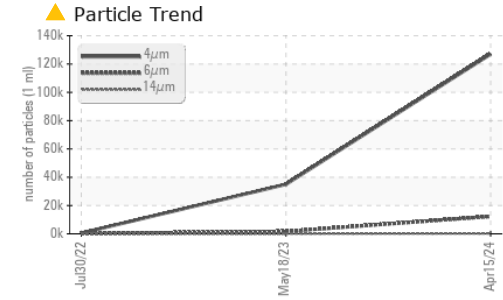
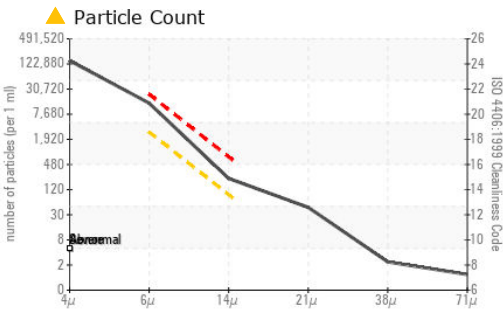
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	19	5
Potassium	ppm	ASTM D5185m	>20	0	4	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		126988	34992	494
Particles >6µm		ASTM D7647	>2500	▲ 12282	1725	70
Particles >14µm		ASTM D7647	>80	▲ 196	46	9
Particles >21µm		ASTM D7647	>20	▲ 40	14	2
Particles >38µm		ASTM D7647	>4	2	2	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	▲ 24/21/15	22/18/13	16/13/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	0	2
Boron	ppm	ASTM D5185m	14	26	4	41
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<1	<1	1
Manganese	ppm	ASTM D5185m	0.0	0	0	0
Magnesium	ppm	ASTM D5185m	2.6	10	71	15
Calcium	ppm	ASTM D5185m	49	892	263	972
Phosphorus	ppm	ASTM D5185m	354	535	551	510
Zinc	ppm	ASTM D5185m	419	653	719	699
Sulfur	ppm	ASTM D5185m	3719	2587	2426	2278
Acid Number (AN)	mg KOH/g	ASTM D8045		0.53	0.56	0.56
Visc @ 40°C	cSt	ASTM D445	46	43.4	38.23	45.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : VCP427271  
 Lab Number : 06160292  
 Unique Number : 10995715  
 Test Package : MOB 2

Received : 25 Apr 2024  
 Tested : 26 Apr 2024  
 Diagnosed : 26 Apr 2024 - Don Baldrige

**ALTA EQUIPMENT CO - ORLAND PARK**  
 5000 INDUSTRIAL HWY  
 GARY, IN  
 US 46406  
 Contact: DAVE ENG  
 DAVE.ENG@ALTG.COM  
 T: (312)350-2560  
 F:

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)