



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**[A12303]**  
Machine Id  
**VOLVO L120H 633047**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL HYDRAULIC OIL AW 46 (--- GAL)**

### RECOMMENDATION

Oil and 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		VCP446014	VCP430933	VCP400279
Sample Date		Client Info		18 Mar 2024	01 Nov 2023	11 Jan 2023
Machine Age	hrs	Client Info		4500	3400	2042
Oil Age	hrs	Client Info		4500	1000	2042
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	8	7	8
Chromium	ppm	ASTM D5185m	>20	1	2	1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>20	<1	1	<1
Copper	ppm	ASTM D5185m	>20	5	4	3
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

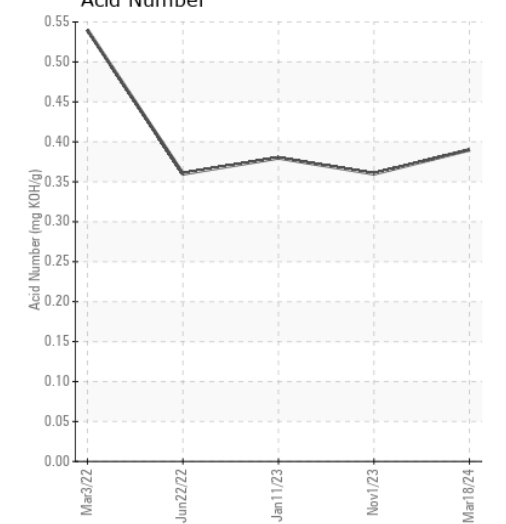
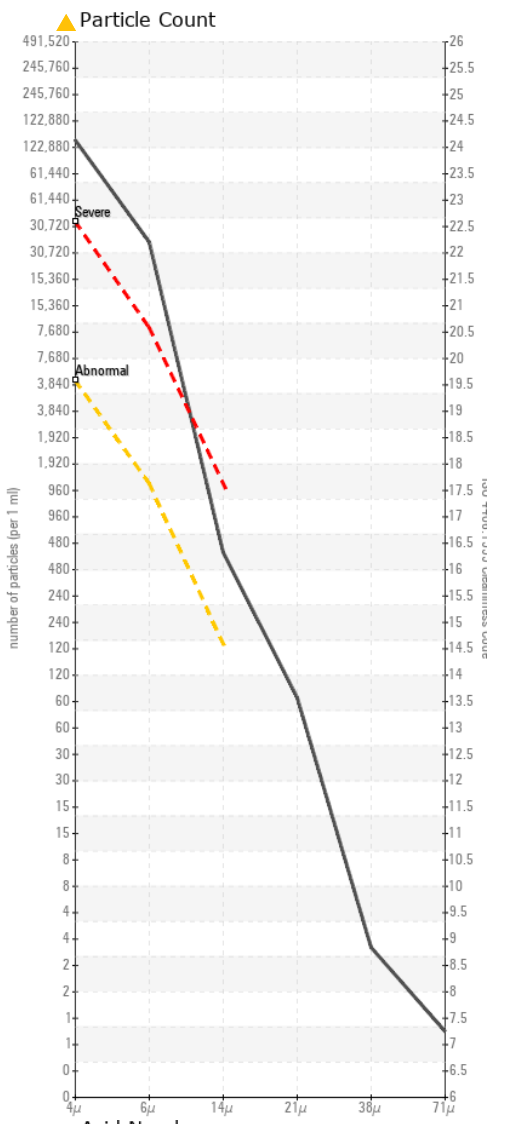
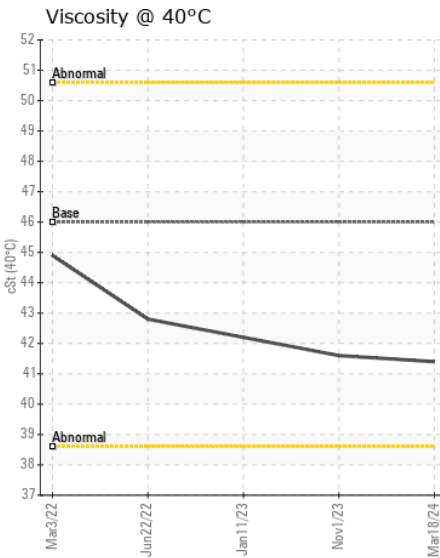
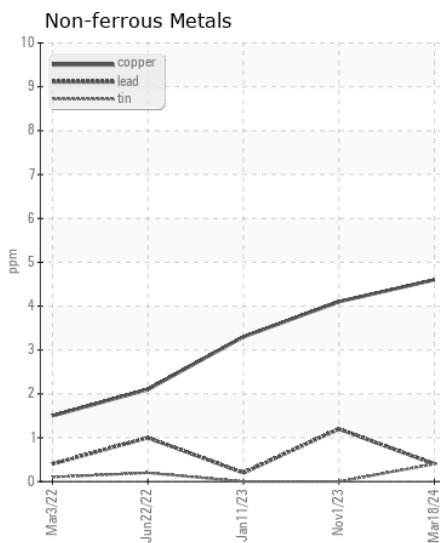
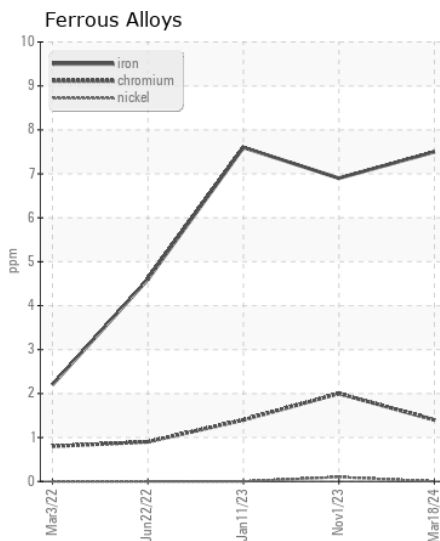
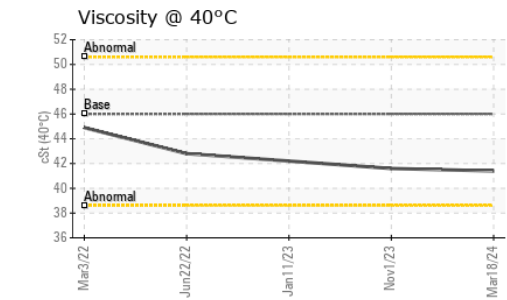
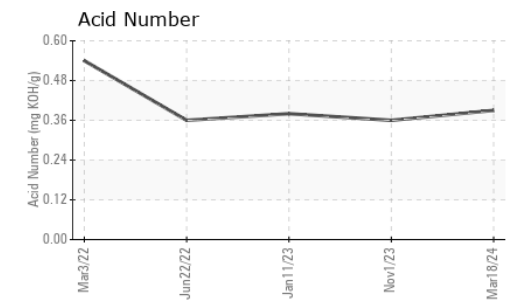
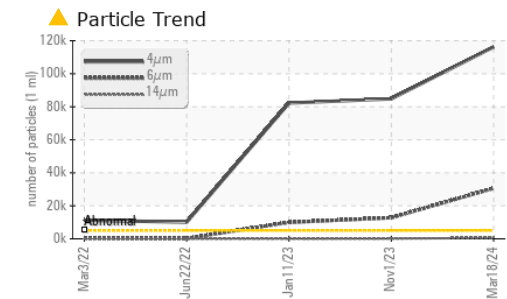
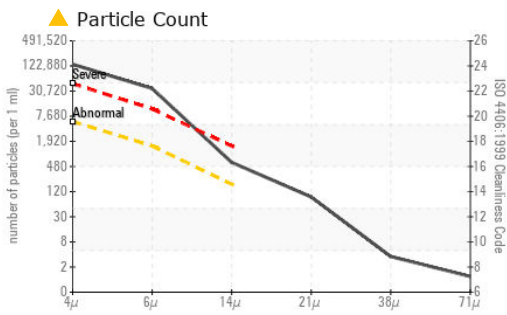
There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>20	3	4	3
Potassium	ppm	ASTM D5185m	>20	23	17	8
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 116255	▲ 84789	▲ 82239
Particles >6µm		ASTM D7647	>1300	▲ 30654	▲ 12792	▲ 9963
Particles >14µm		ASTM D7647	>160	▲ 528	117	68
Particles >21µm		ASTM D7647	>40	▲ 79	16	14
Particles >38µm		ASTM D7647	>10	3	0	2
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/16	▲ 24/21/14	▲ 24/20/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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	>0.2	NEG	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		3	4	1
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		6	6	4
Calcium	ppm	ASTM D5185m		74	70	64
Phosphorus	ppm	ASTM D5185m		330	335	346
Zinc	ppm	ASTM D5185m		414	420	409
Sulfur	ppm	ASTM D5185m		1776	1726	1620
Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.36	0.38
Visc @ 40°C	cSt	ASTM D445	46	41.4	41.6	42.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : VCP446014  
 Lab Number : 06123587  
 Unique Number : 10937738  
 Test Package : MOB 2

Received : 20 Mar 2024  
 Tested : 25 Mar 2024  
 Diagnosed : 25 Mar 2024 - Jonathan Hester

**GOURMETS DELIGHT**  
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 F: (610)268-2298

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)