



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SPM729436]**  
 Machine Id  
**VOLVO L150H 6556**  
 Component  
**Front Axle**  
 Fluid  
**VOLVO WET BRAKE TRANSAXLE OIL (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP427390</b>	VCP444479	VCP390871
Sample Date		Client Info		<b>22 Jun 2024</b>	15 Mar 2024	22 Mar 2023
Machine Age	hrs	Client Info		<b>7246</b>	8191	6793
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>SEVERE</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>38</b>	16	77
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	2	1
Lead	ppm	ASTM D5185m	>50	<b>0</b>	1	0
Copper	ppm	ASTM D5185m	>120	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

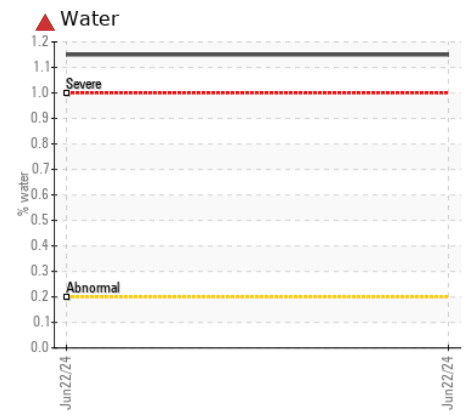
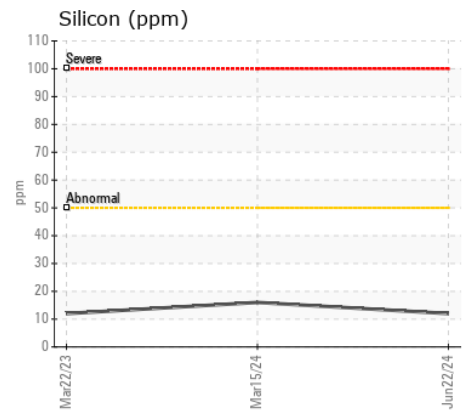
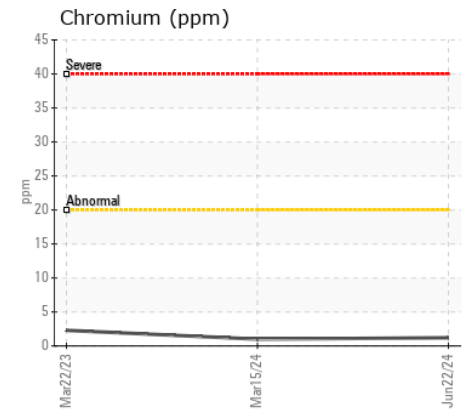
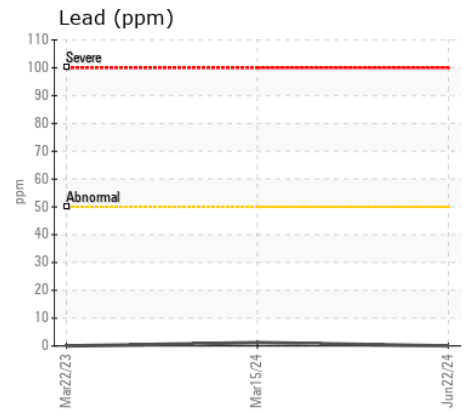
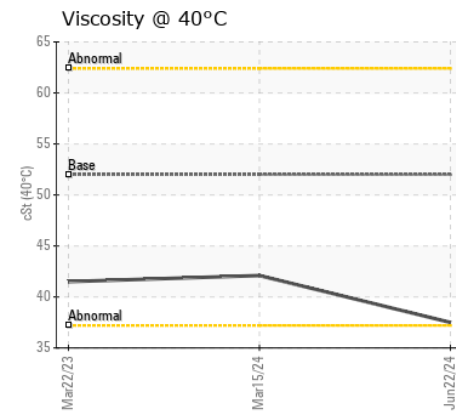
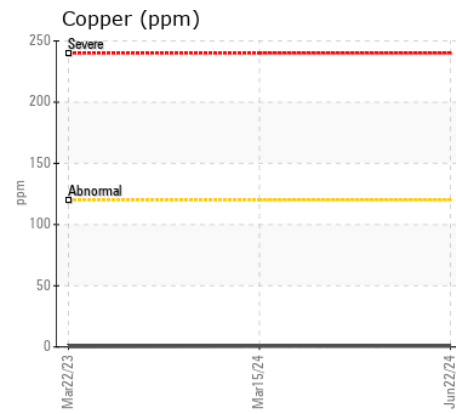
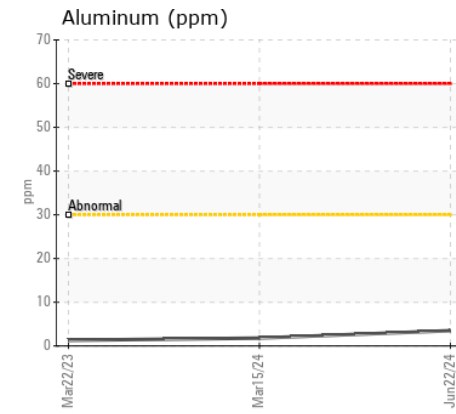
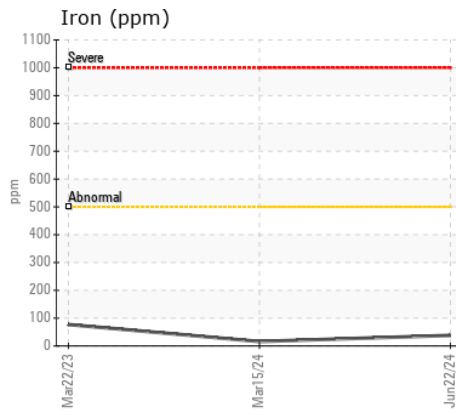
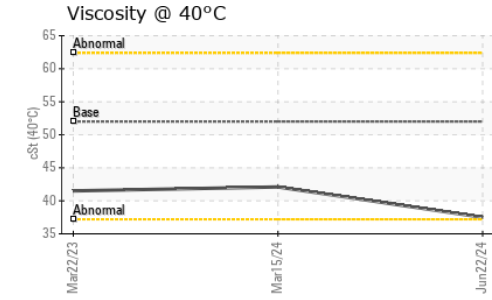
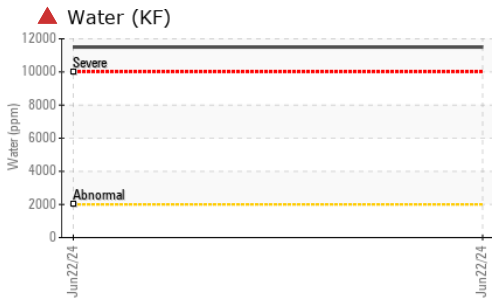
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>12</b>	16	12
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Water	%	ASTM D6304	>0.2	<b>▲ 1.15</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 11500</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	NONE
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	>0.2	<b>▲ 0.2%</b>	NEG	NEG

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	9
Boron	ppm	ASTM D5185m	100	<b>37</b>	16	131
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	0
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	1	2
Manganese	ppm	ASTM D5185m		<b>3</b>	1	4
Magnesium	ppm	ASTM D5185m	0	<b>9</b>	10	21
Calcium	ppm	ASTM D5185m	3800	<b>3490</b>	3392	3849
Phosphorus	ppm	ASTM D5185m	1200	<b>1292</b>	1160	1272
Zinc	ppm	ASTM D5185m	1500	<b>1507</b>	1458	1524
Sulfur	ppm	ASTM D5185m	6500	<b>5283</b>	5034	4329
Visc @ 40°C	cSt	ASTM D445	52.0	<b>37.5</b>	42.1	41.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : VCP427390 Received : 18 Jul 2024  
 Lab Number : 06240658 Tested : 19 Jul 2024  
 Unique Number : 11129492 Diagnosed : 20 Jul 2024 - Don Baldrige  
 Test Package : MOB 1 ( Additional Tests: KF )

**SIMS METAL MANAGEMENT**  
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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)