



# VOLVO

## OIL ANALYSIS REPORT

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

Area  
**[729514 BULK EXPRESS]**  
 Machine Id  
**VOLVO L150H 6770**  
 Component  
**Front Axle**  
 Fluid  
**VOLVO WB 102 (--- GAL)**



### RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP454584</b>	VCP455149	VCP437676
Sample Date		Client Info		<b>12 Jun 2024</b>	21 Mar 2024	03 Jan 2024
Machine Age	hrs	Client Info		<b>12371</b>	11881	11384
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>Changed</b>	Changed	Not Chngd
Filter Changed		Client Info		<b>Changed</b>	Not Chngd	Not Chngd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

High concentration of visible metal present. All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>381</b>	▲ 916	▲ 890
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	8	8
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	5	5
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	3	2
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>120	<b>2</b>	4	5
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	▲ <b>HEAVY</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

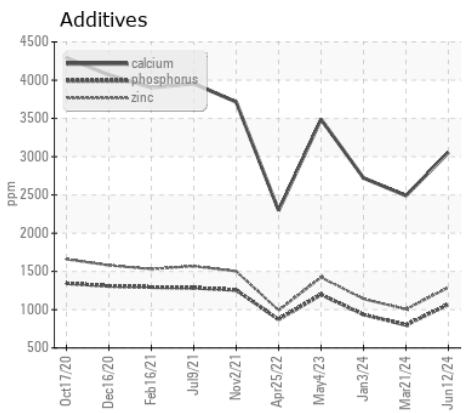
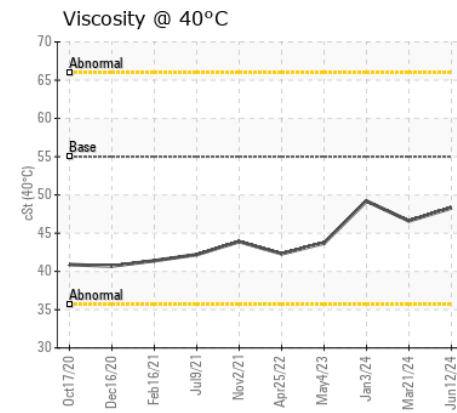
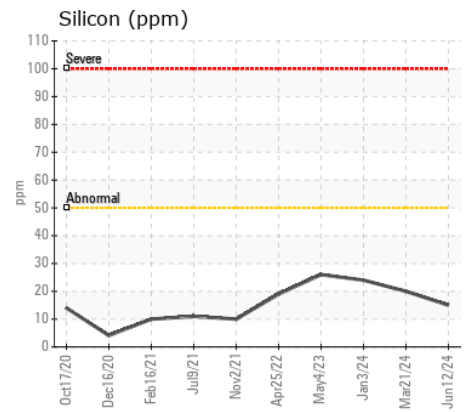
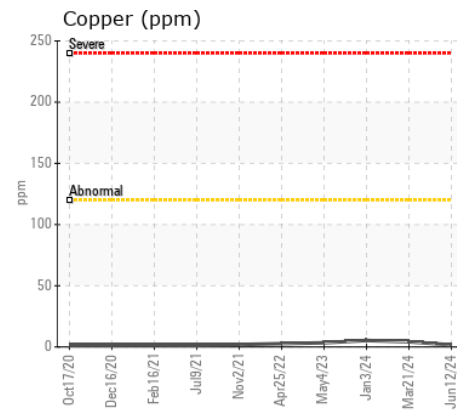
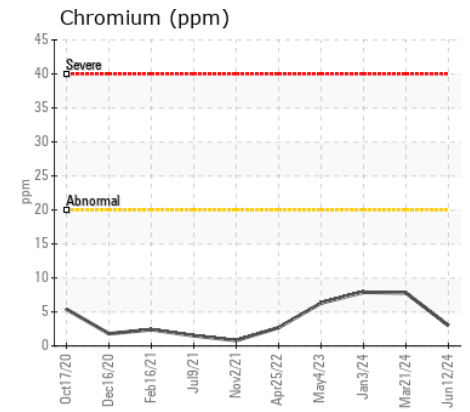
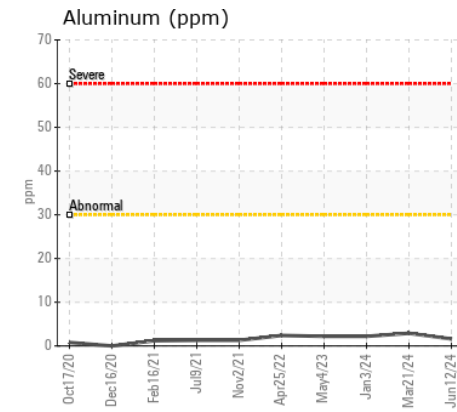
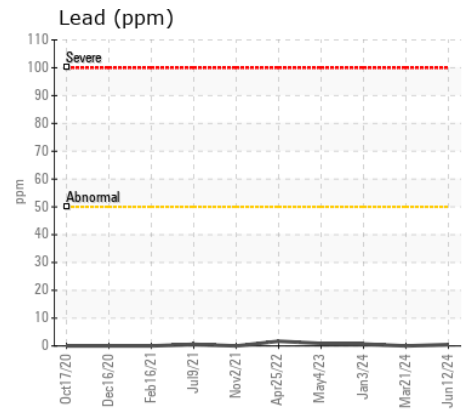
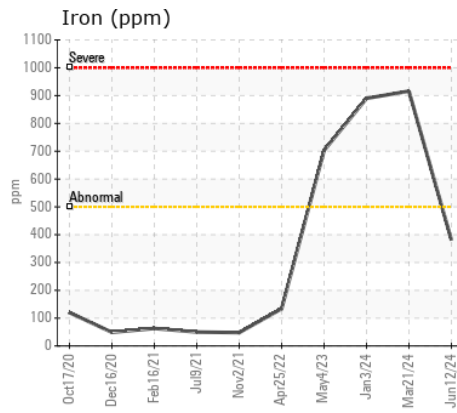
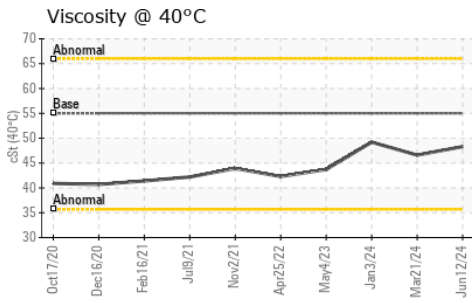
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>15</b>	20	24
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	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>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>3</b>	5	0
Boron	ppm	ASTM D5185m		<b>95</b>	69	76
Barium	ppm	ASTM D5185m		<b>0</b>	0	7
Molybdenum	ppm	ASTM D5185m		<b>6</b>	3	3
Manganese	ppm	ASTM D5185m		<b>4</b>	9	9
Magnesium	ppm	ASTM D5185m		<b>78</b>	17	22
Calcium	ppm	ASTM D5185m		<b>3054</b>	2490	2722
Phosphorus	ppm	ASTM D5185m		<b>1068</b>	800	936
Zinc	ppm	ASTM D5185m		<b>1291</b>	1005	1142
Sulfur	ppm	ASTM D5185m		<b>3841</b>	4488	3924
Visc @ 40°C	cSt	ASTM D445	55	<b>48.3</b>	46.6	49.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP454584  
**Lab Number** : 06216068  
**Unique Number** : 11088932  
**Test Package** : MOB 1

**Received** : 20 Jun 2024  
**Tested** : 22 Jun 2024  
**Diagnosed** : 23 Jun 2024 - Don Baldrige

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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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)