



# VOLVO

## OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**NORMAL**  
**NORMAL**  
**ATTENTION**



Machine Id  
**VOLVO L150H 6491**  
Component  
**Transmission (Auto)**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP432366</b>	VCP414712	VCP418283
Sample Date		Client Info		<b>14 Dec 2023</b>	14 Sep 2023	14 Jun 2023
Machine Age	hrs	Client Info		<b>6212</b>	5645	4891
Oil Age	hrs	Client Info		<b>0</b>	1645	1000
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>139</b>	128	102
Chromium	ppm	ASTM D5185m	>2	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	1
Lead	ppm	ASTM D5185m	>75	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>7</b>	6	4
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	0
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

There is no indication of any contamination in the fluid.

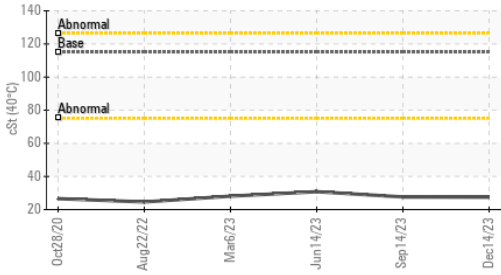
Silicon	ppm	ASTM D5185m	>20	<b>5</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

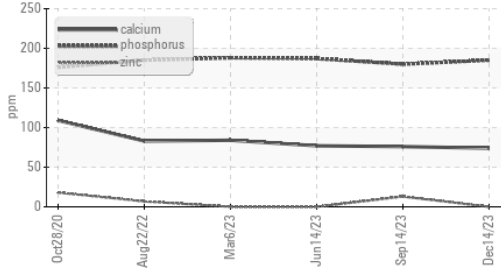
The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	<b>3</b>	2	2
Boron	ppm	ASTM D5185m	250	<b>69</b>	74	73
Barium	ppm	ASTM D5185m	10	<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m	100	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	4	3
Magnesium	ppm	ASTM D5185m	450	<b>▲ &lt;1</b>	2	0
Calcium	ppm	ASTM D5185m	3000	<b>▲ 74</b>	76	77
Phosphorus	ppm	ASTM D5185m	1150	<b>▲ 185</b>	180	187
Zinc	ppm	ASTM D5185m	1350	<b>▲ 0</b>	13	0
Sulfur	ppm	ASTM D5185m	4250	<b>1725</b>	1913	2203
Visc @ 40°C	cSt	ASTM D445	115	<b>▲ 27.5</b>	27.6	30.8

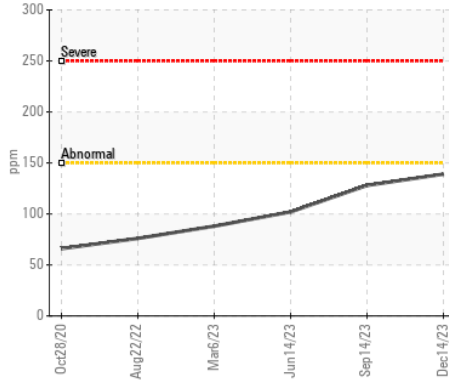
▲ Viscosity @ 40°C



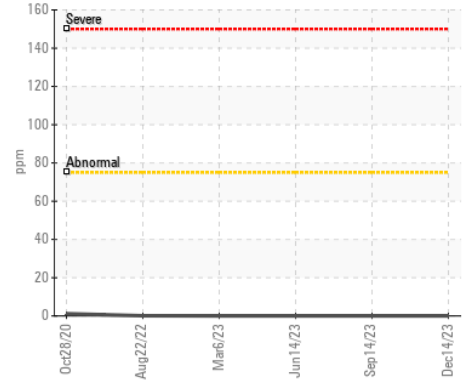
▲ Additives



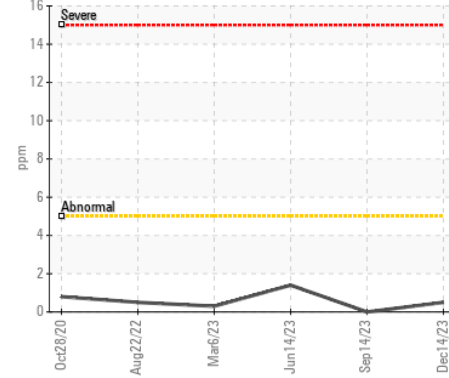
Iron (ppm)



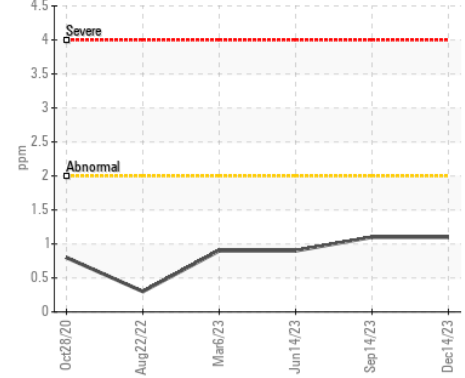
Lead (ppm)



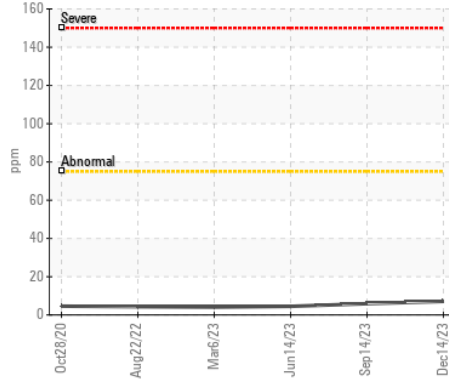
Aluminum (ppm)



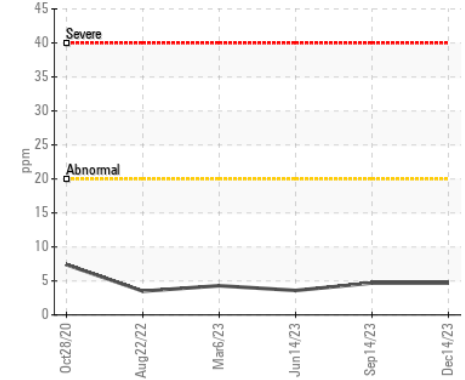
Chromium (ppm)



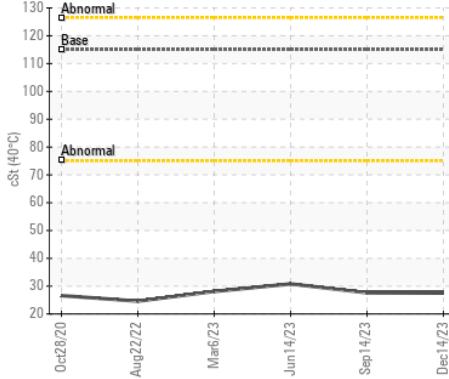
Copper (ppm)



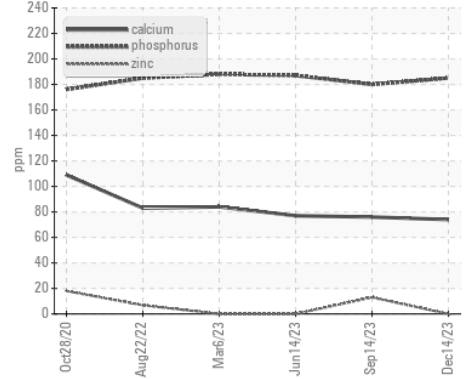
Silicon (ppm)



▲ Viscosity @ 40°C



▲ Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP432366 **Received** : 11 Jan 2024  
**Lab Number** : 06058525 **Diagnosed** : 14 Jan 2024  
**Unique Number** : 10829907 **Diagnostician** : Don Baldridge  
**Test Package** : MOB 1

**ALTA EQUIPMENT/FLAGLER CONSTRUCTION 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)