



# VOLVO

## OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

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



Area  
**[ATLAS]**  
Machine Id  
**VOLVO L70H 624670**  
Component  
**Transmission (Auto)**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP432163</b>	VCP411619	---
Sample Date		Client Info		<b>20 Dec 2023</b>	18 Sep 2023	---
Machine Age	hrs	Client Info		<b>2474</b>	1489	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Not Changd	---
Sample Status				<b>ATTENTION</b>	NORMAL	---

### WEAR

An increase in the iron level is noted. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>▲ 152</b>	2	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>50	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>225	<b>12</b>	<1	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

There is no indication of any contamination in the fluid.

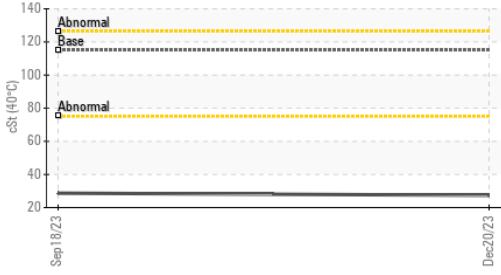
Silicon	ppm	ASTM D5185m	>20	<b>8</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

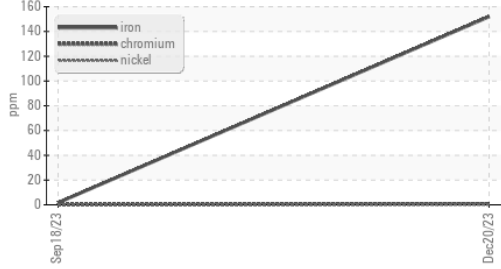
The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	<b>6</b>	2	---
Boron	ppm	ASTM D5185m	250	<b>55</b>	106	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	100	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>10</b>	<1	---
Magnesium	ppm	ASTM D5185m	450	<b>▲ &lt;1</b>	3	---
Calcium	ppm	ASTM D5185m	3000	<b>▲ 72</b>	75	---
Phosphorus	ppm	ASTM D5185m	1150	<b>▲ 195</b>	179	---
Zinc	ppm	ASTM D5185m	1350	<b>▲ 28</b>	0	---
Sulfur	ppm	ASTM D5185m	4250	<b>1619</b>	1837	---
Visc @ 40°C	cSt	ASTM D445	115	<b>▲ 27.4</b>	28.7	---

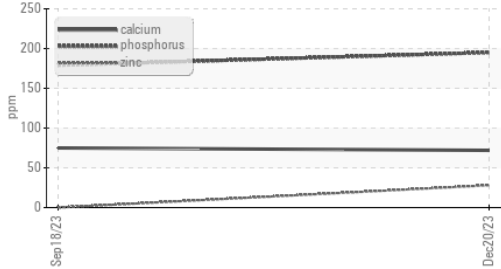
▲ Viscosity @ 40°C



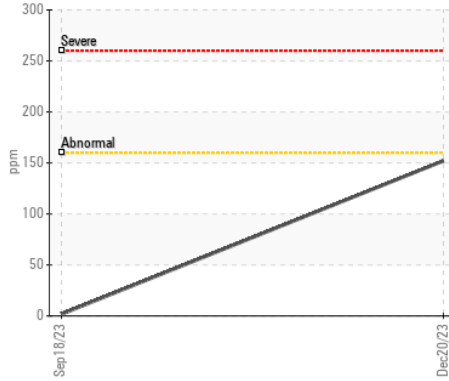
▲ Ferrous Alloys



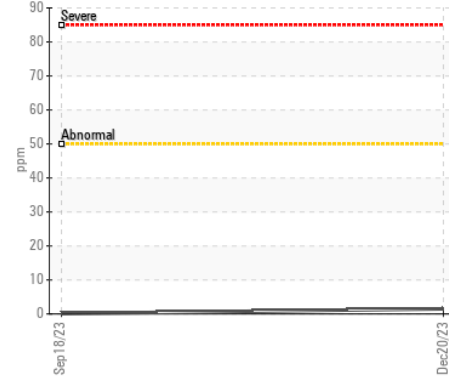
▲ Additives



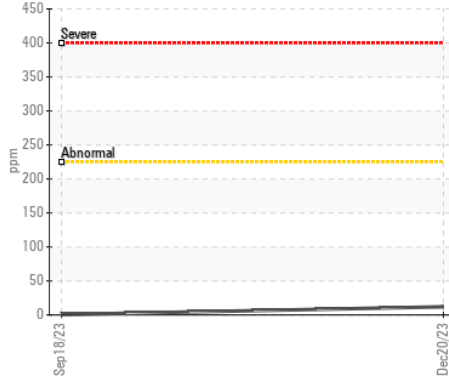
▲ Iron (ppm)



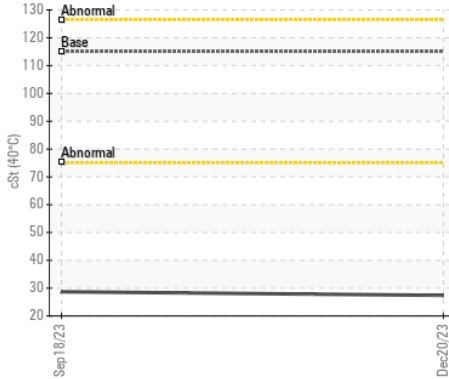
▲ Aluminum (ppm)



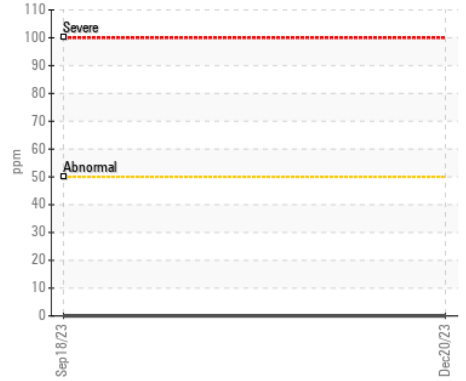
▲ Copper (ppm)



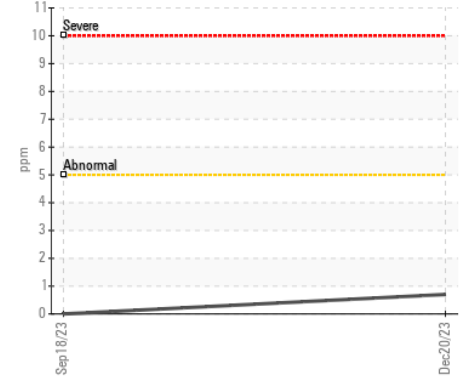
▲ Viscosity @ 40°C



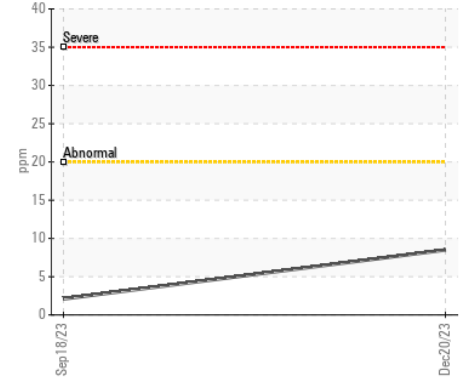
▲ Lead (ppm)



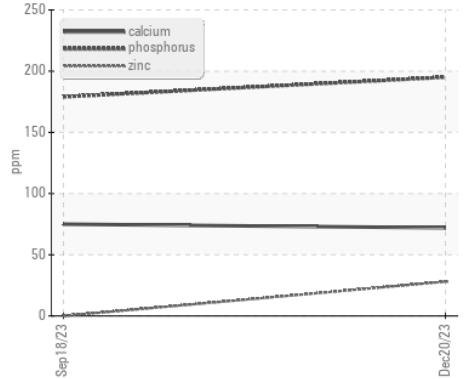
▲ Chromium (ppm)



▲ Silicon (ppm)



▲ Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP432163 **Received** : 11 Jan 2024  
**Lab Number** : 06058523 **Diagnosed** : 14 Jan 2024  
**Unique Number** : 10829905 **Diagnostician** : Don Baldrige  
**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)