



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[INSTACRETE]**  
 Machine Id  
**VOLVO L70H 625043**  
 Component  
**Diesel Engine**  
 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>VCP440017</b>	VCP414744	---
Sample Date		Client Info		<b>13 Feb 2024</b>	15 Sep 2023	---
Machine Age	hrs	Client Info		<b>892</b>	538	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>200	<b>10</b>	22	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>6</b>	16	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	2	---
Copper	ppm	ASTM D5185m	>20	<b>1</b>	9	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	4	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

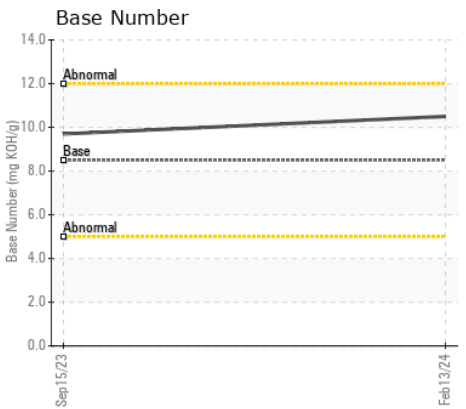
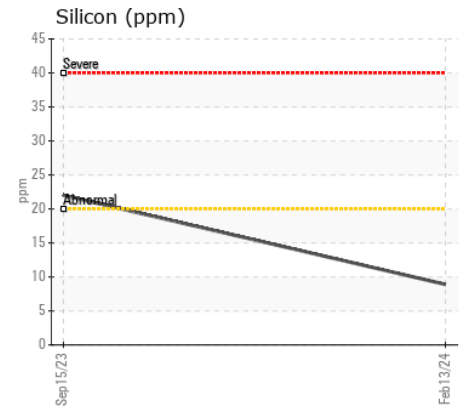
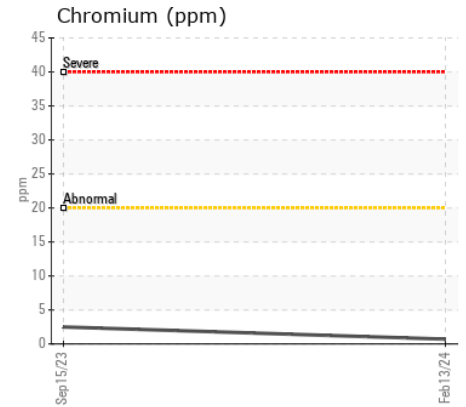
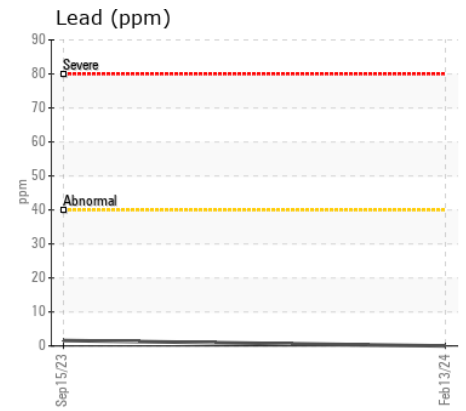
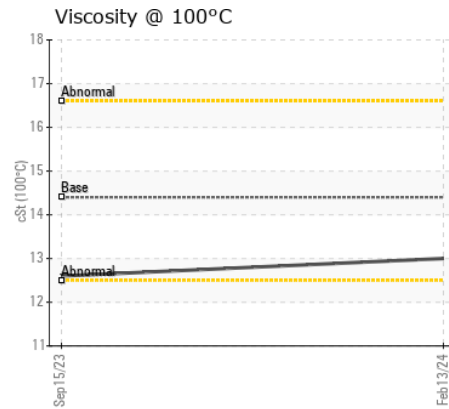
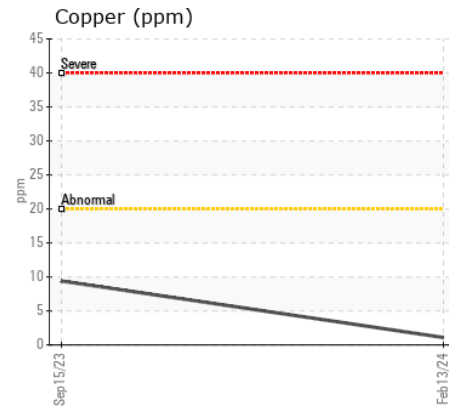
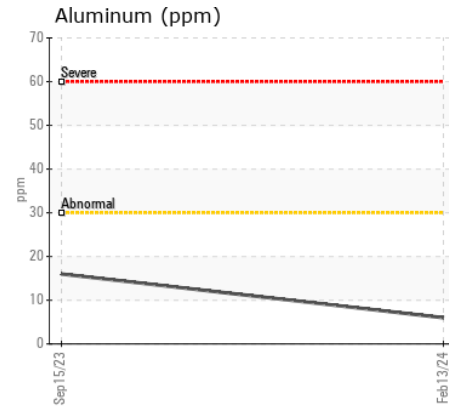
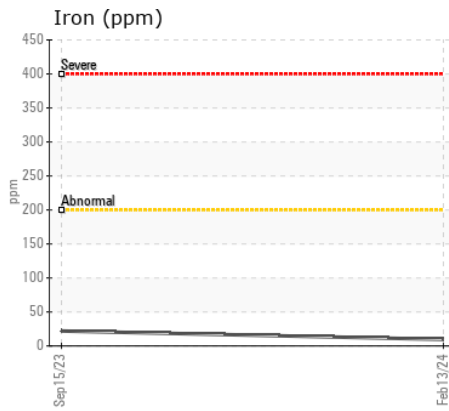
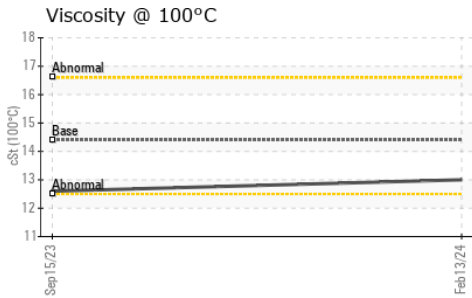
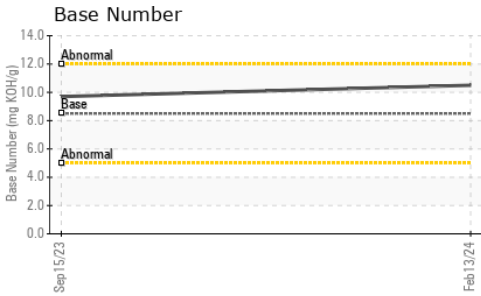
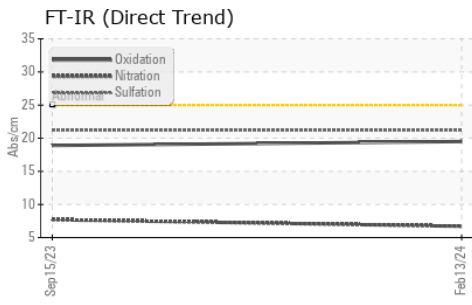
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	22	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	7.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	21.2	---
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	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	<b>2</b>	5	---
Boron	ppm	ASTM D5185m	250	<b>48</b>	49	---
Barium	ppm	ASTM D5185m	10	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m	100	<b>42</b>	43	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	4	---
Magnesium	ppm	ASTM D5185m	450	<b>557</b>	634	---
Calcium	ppm	ASTM D5185m	3000	<b>1888</b>	1718	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1034</b>	1029	---
Zinc	ppm	ASTM D5185m	1350	<b>1222</b>	1252	---
Sulfur	ppm	ASTM D5185m	4250	<b>3738</b>	3476	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	18.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>10.5</b>	9.7	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.0</b>	12.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP440017  
**Lab Number** : 06160015  
**Unique Number** : 10995438  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 25 Apr 2024  
**Tested** : 25 Apr 2024  
**Diagnosed** : 25 Apr 2024 - Wes Davis

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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)