



# VOLVO

## OIL ANALYSIS REPORT

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

Area

**[8000409102]**

Machine Id

**VOLVO L90H 623088**

Component

**Diesel Engine**

Fluid

**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)**



### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP450317</b>	VCP155749	---
Sample Date		Client Info		<b>27 Jun 2024</b>	03 Sep 2015	---
Machine Age	hrs	Client Info		<b>11500</b>	489	---
Oil Age	hrs	Client Info		<b>500</b>	489	---
Filter Age	hrs	Client Info		<b>0</b>	489	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>11</b>	29	---
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	3	---
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>4</b>	26	---
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	1	---
Copper	ppm	ASTM D5185(m)	>15	<b>1</b>	8	---
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

### CONTAMINATION

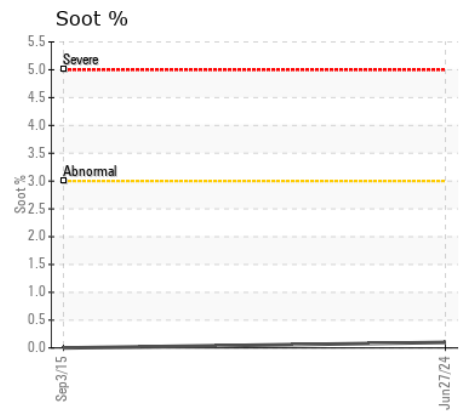
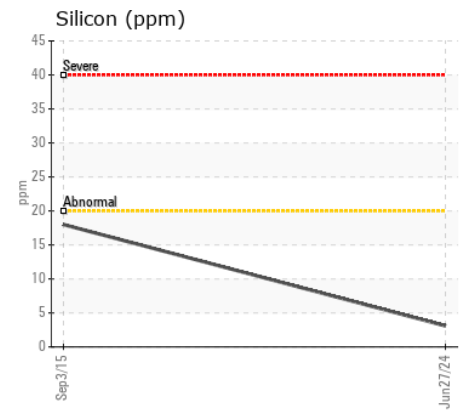
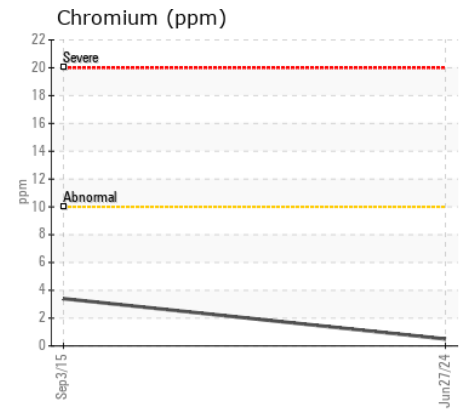
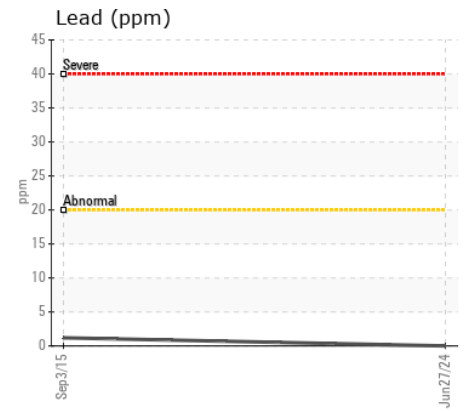
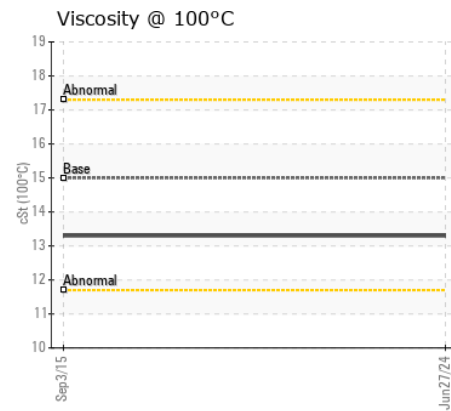
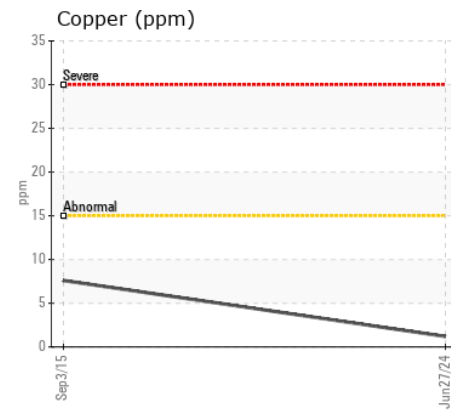
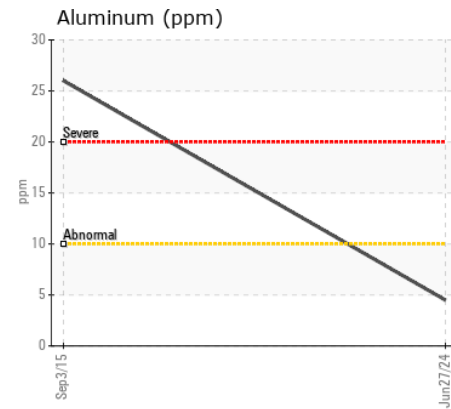
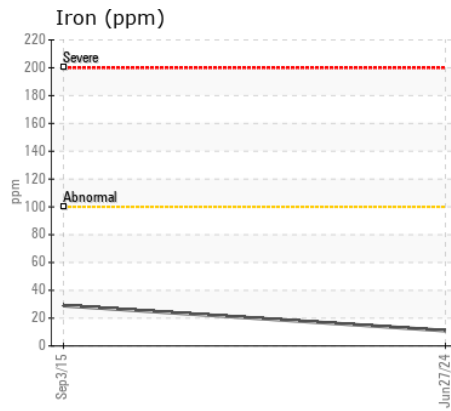
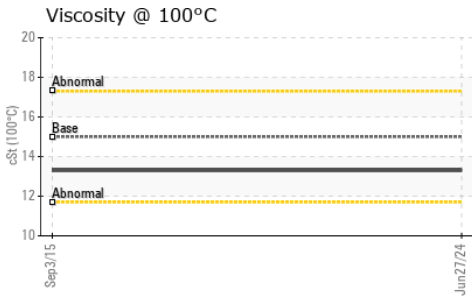
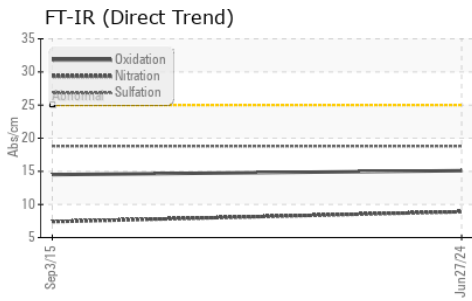
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	18	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.9</b>	7.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.8</b>	18.8	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>1</b>	5	---
Boron	ppm	ASTM D5185(m)	2.5	<b>10</b>	36	---
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>52</b>	37	---
Manganese	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	3	---
Magnesium	ppm	ASTM D5185(m)	256	<b>796</b>	757	---
Calcium	ppm	ASTM D5185(m)	2057	<b>1390</b>	1349	---
Phosphorus	ppm	ASTM D5185(m)	935	<b>1028</b>	972	---
Zinc	ppm	ASTM D5185(m)	1223	<b>1259</b>	1159	---
Sulfur	ppm	ASTM D5185(m)	4079	<b>2881</b>	3760	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.1</b>	14.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>13.3</b>	13.3	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP450317  
**Lab Number** : 02644767  
**Unique Number** : 5802306  
**Test Package** : MOB 1  
**Received** : 02 Jul 2024  
**Tested** : 02 Jul 2024  
**Diagnosed** : 02 Jul 2024 - Wes Davis

**STRONGCO EQUIPMENT INC.**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.