



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO L110H 631929**  
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>VCP392992</b>	VCP394571	VCP381880
Sample Date		Client Info		<b>09 May 2024</b>	20 Dec 2023	06 Jun 2023
Machine Age	hrs	Client Info		<b>6647</b>	6002	5000
Oil Age	hrs	Client Info		<b>500</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>13</b>	8	10
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>5</b>	4	4
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>15	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

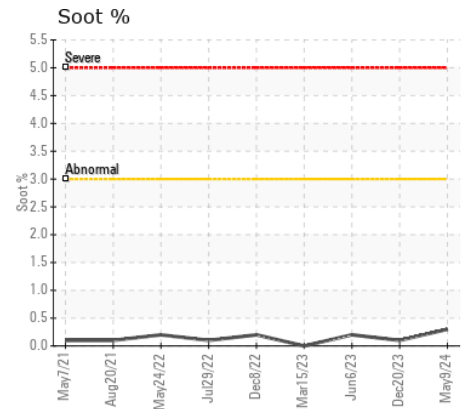
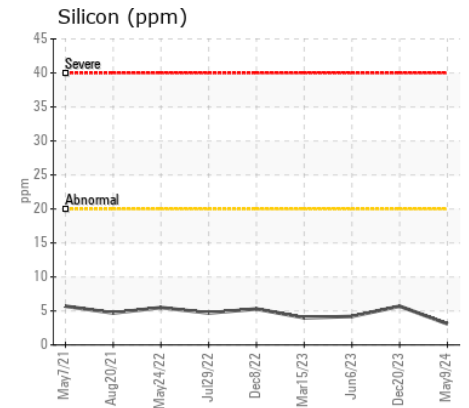
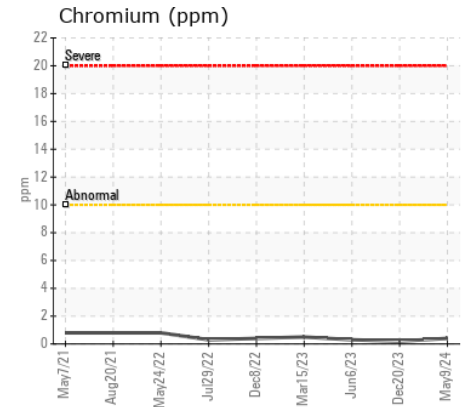
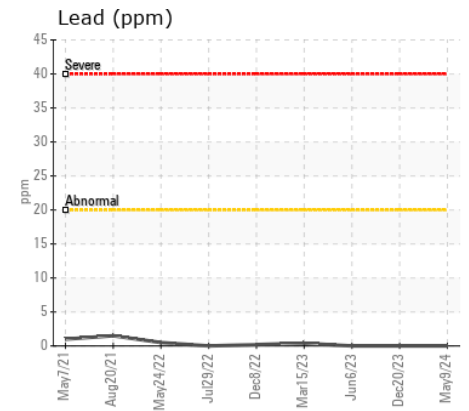
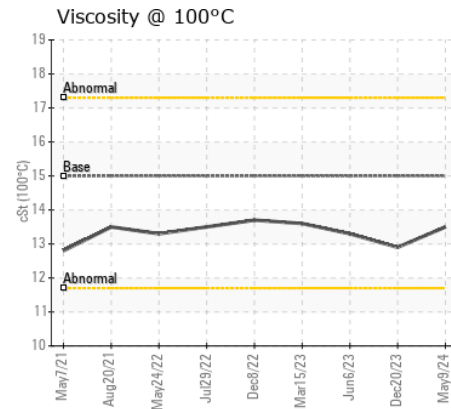
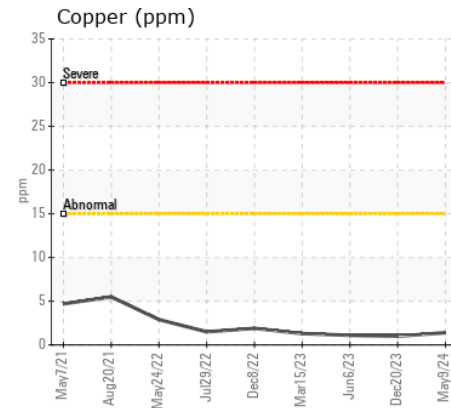
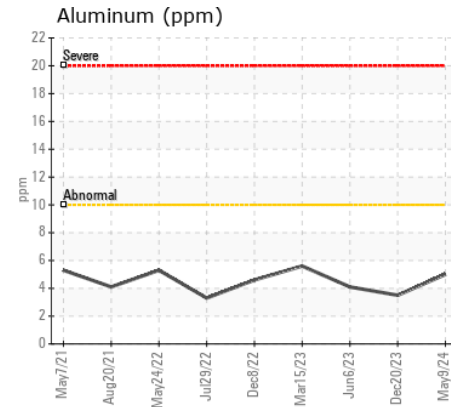
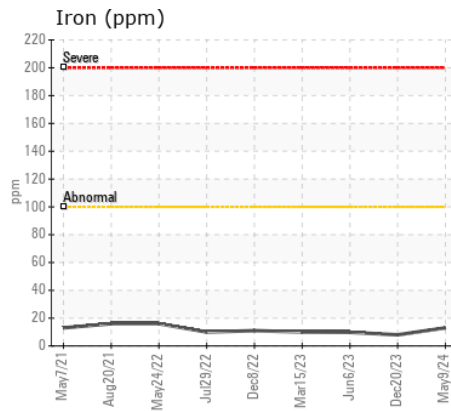
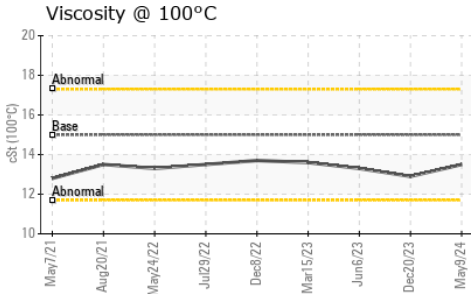
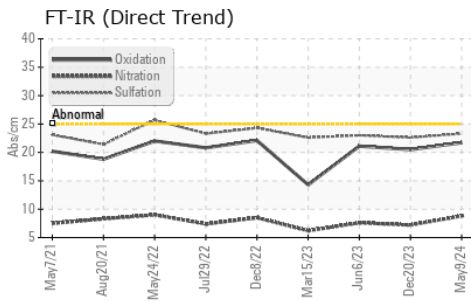
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	6	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.8</b>	7.2	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.3</b>	22.6	23.0
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)	2.5	<b>32</b>	36	36
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>42</b>	42	42
Manganese	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	256	<b>525</b>	508	496
Calcium	ppm	ASTM D5185(m)	2057	<b>1770</b>	1708	1670
Phosphorus	ppm	ASTM D5185(m)	935	<b>924</b>	939	953
Zinc	ppm	ASTM D5185(m)	1223	<b>1119</b>	1075	1029
Sulfur	ppm	ASTM D5185(m)	4079	<b>2363</b>	2528	2329
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.7</b>	20.5	21.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>13.5</b>	12.9	13.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP392992  
**Lab Number** : 02634513  
**Unique Number** : 5775666  
**Test Package** : MOB 1  
**Received** : 10 May 2024  
**Tested** : 10 May 2024  
**Diagnosed** : 10 May 2024 - Wes Davis

**CITY OF KELOWNA**  
 1435 WATER STREET  
 KELOWNA, BC  
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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.