



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**AUTO IMPACT [8000405532]**  
Machine Id  
**VOLVO L90H 625320**  
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>VCP391615</b>	VCP353372	VCP334418
Sample Date		Client Info		<b>23 May 2024</b>	21 Jun 2023	27 Jul 2022
Machine Age	hrs	Client Info		<b>5593</b>	4557	3487
Oil Age	hrs	Client Info		<b>0</b>	498	411
Filter Age	hrs	Client Info		<b>0</b>	498	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>11</b>	8	7
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>5</b>	3	2
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>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

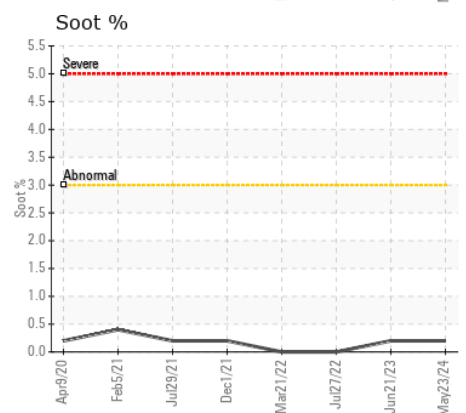
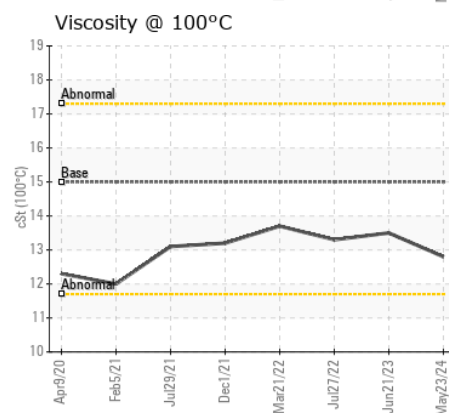
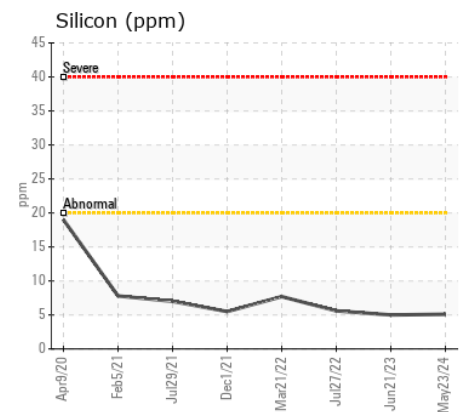
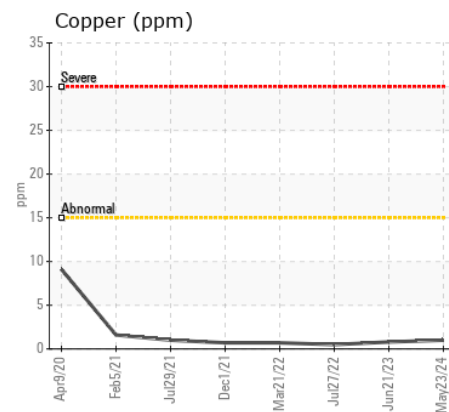
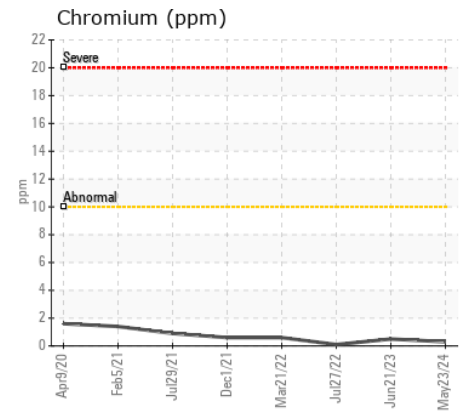
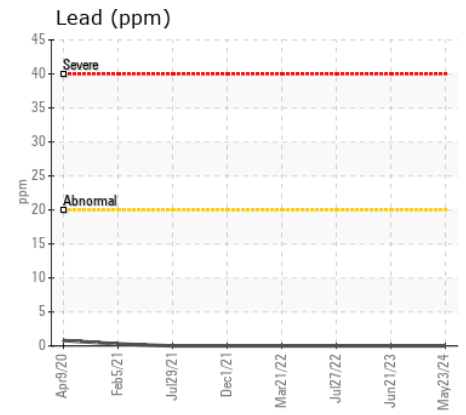
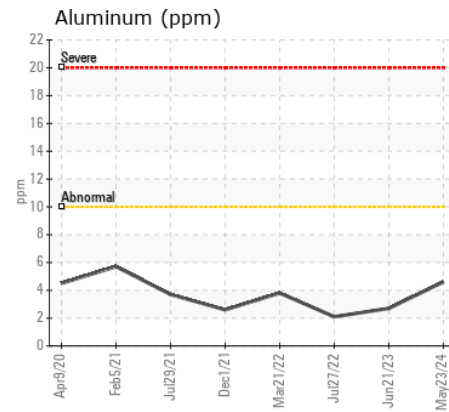
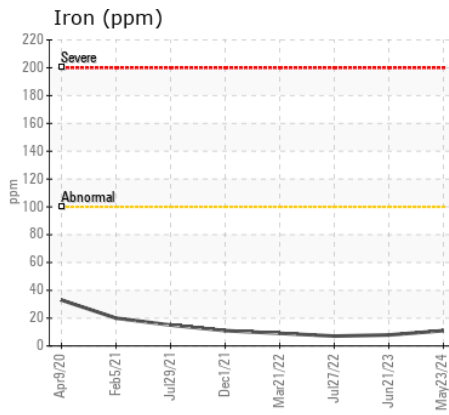
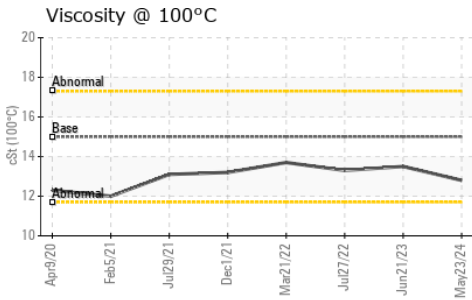
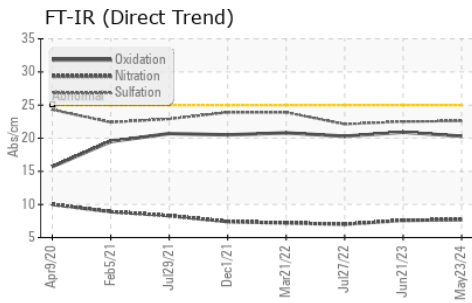
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
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>0.2</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.7</b>	7.6	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.6</b>	22.5	22.1
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>3</b>	3	3
Boron	ppm	ASTM D5185(m)	2.5	<b>39</b>	39	45
Barium	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>41</b>	40	42
Manganese	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	256	<b>513</b>	507	513
Calcium	ppm	ASTM D5185(m)	2057	<b>1732</b>	1709	1718
Phosphorus	ppm	ASTM D5185(m)	935	<b>927</b>	960	939
Zinc	ppm	ASTM D5185(m)	1223	<b>1069</b>	1089	1103
Sulfur	ppm	ASTM D5185(m)	4079	<b>2321</b>	2422	2540
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.3</b>	20.9	20.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>12.8</b>	13.5	13.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP391615  
**Lab Number** : 02638414  
**Unique Number** : 5787576  
**Test Package** : MOB 1  
**Received** : 29 May 2024  
**Tested** : 29 May 2024  
**Diagnosed** : 29 May 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.