



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[394678]**  
 Machine Id  
**16-8009**

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>VCP393081</b>	VCP381533	VCP394640
Sample Date		Client Info		<b>09 Feb 2024</b>	29 Oct 2023	23 Aug 2023
Machine Age	hrs	Client Info		<b>10487</b>	10000	9495
Oil Age	hrs	Client Info		<b>500</b>	500	500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
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>6</b>	8	6
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

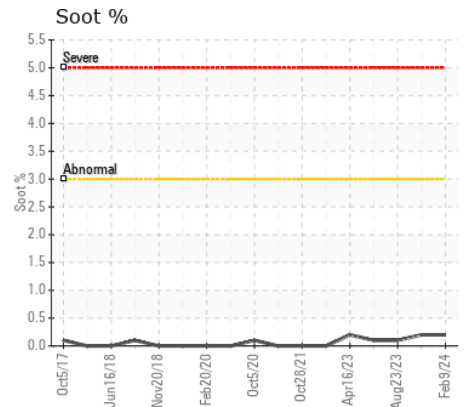
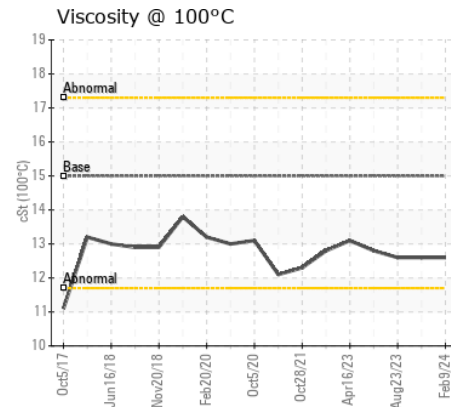
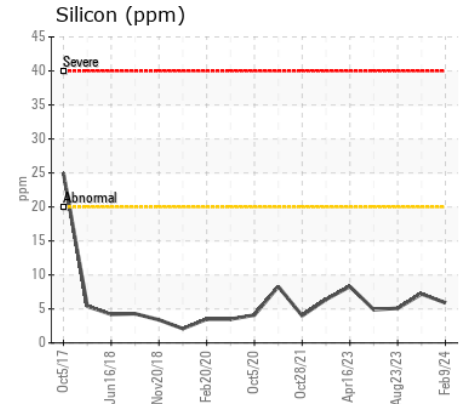
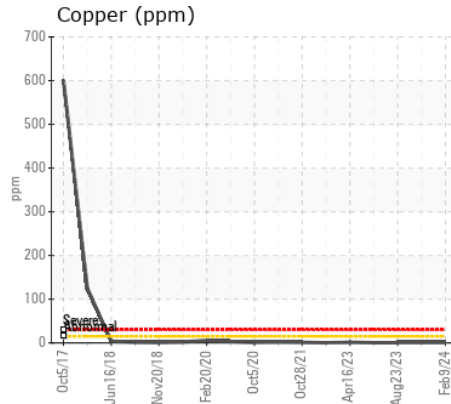
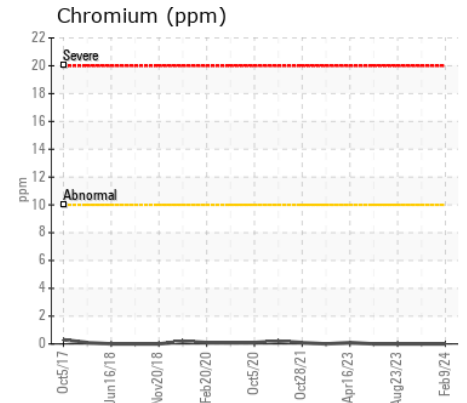
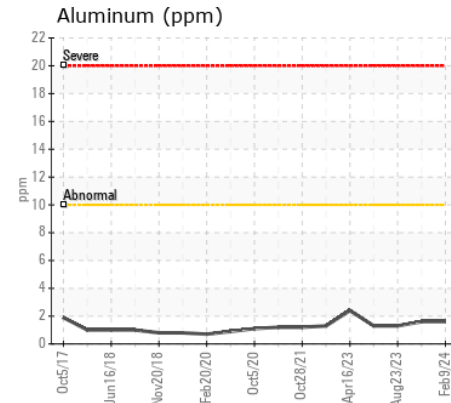
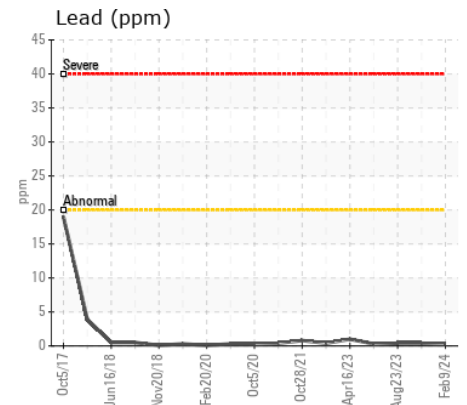
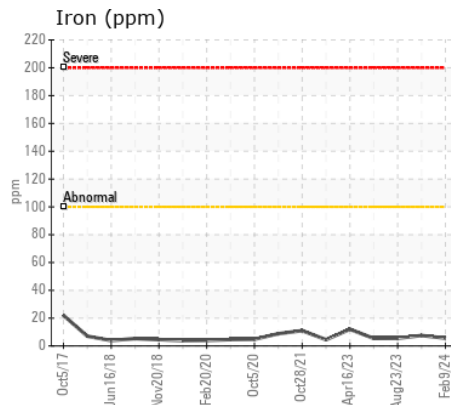
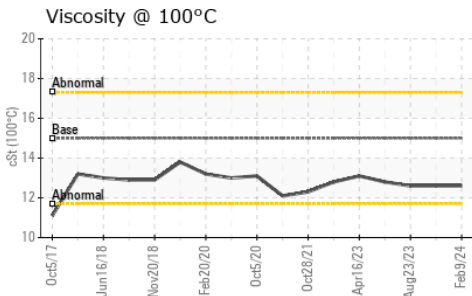
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>6</b>	7	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	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	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.1</b>	7.1	7.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.2</b>	22.7	23.8
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>	3	2
Boron	ppm	ASTM D5185(m)	2.5	<b>34</b>	26	26
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>39</b>	40	39
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	256	<b>495</b>	503	495
Calcium	ppm	ASTM D5185(m)	2057	<b>1684</b>	1720	1611
Phosphorus	ppm	ASTM D5185(m)	935	<b>916</b>	903	927
Zinc	ppm	ASTM D5185(m)	1223	<b>1051</b>	1069	1042
Sulfur	ppm	ASTM D5185(m)	4079	<b>2486</b>	2339	2324
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.9</b>	20.4	20.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>12.6</b>	12.6	12.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP393081 **Received** : 06 Mar 2024  
**Lab Number** : 02620158 **Tested** : 06 Mar 2024  
**Unique Number** : 5737268 **Diagnosed** : 06 Mar 2024 - Wes Davis  
**Test Package** : MOB 1

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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.

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F: