



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[396610]**  
Machine Id  
**16-8020**

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>VCP392811</b>	VCP380507	VCP349662
Sample Date		Client Info		<b>02 Mar 2024</b>	15 Oct 2023	01 Aug 2023
Machine Age	hrs	Client Info		<b>10000</b>	9500	9019
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>4</b>	4	4
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	1	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

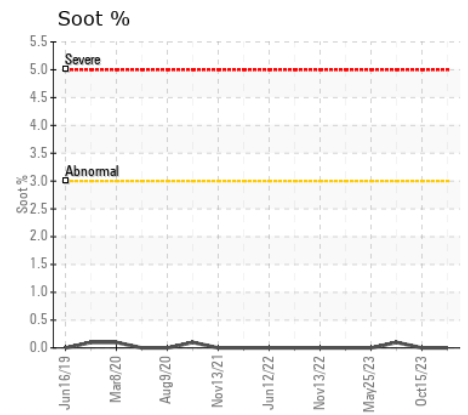
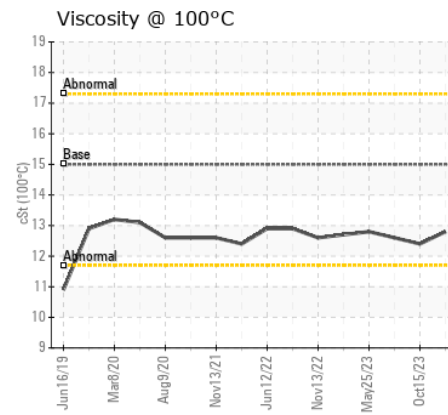
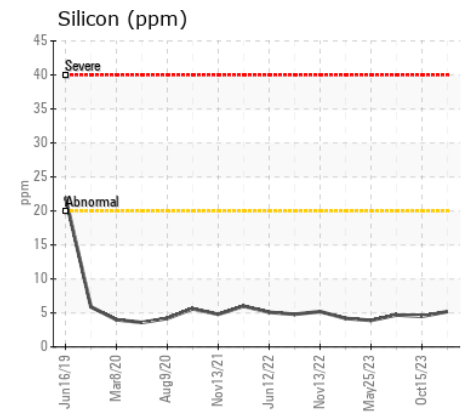
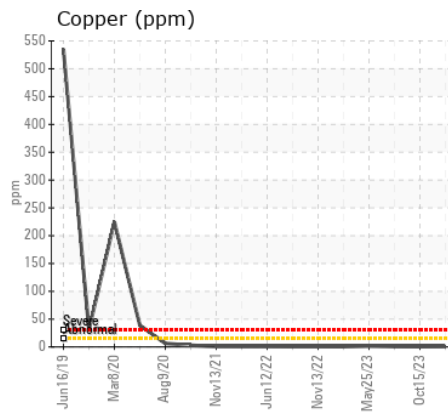
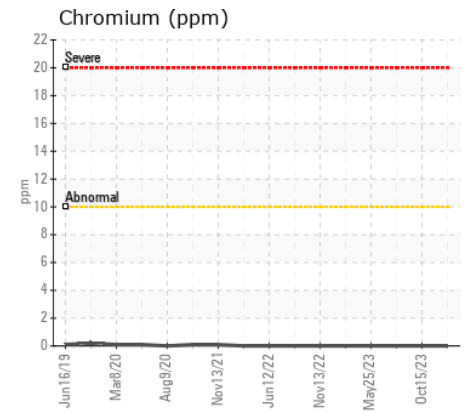
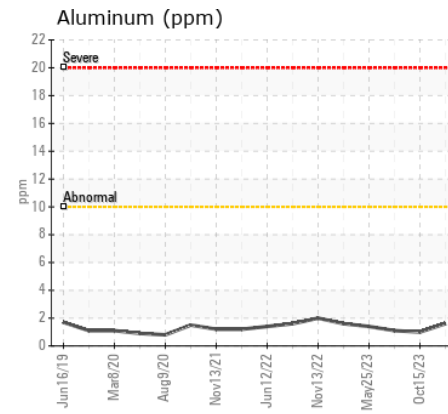
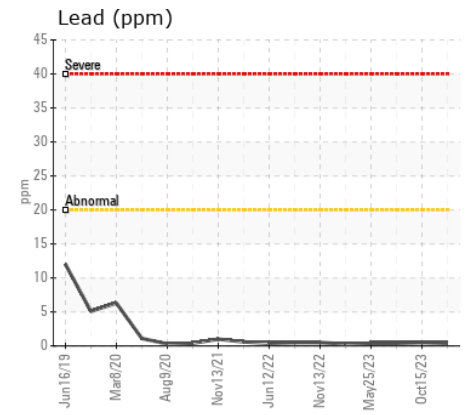
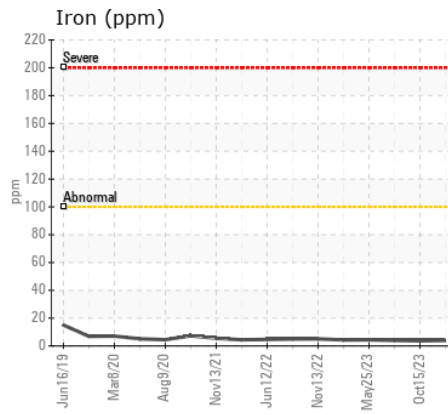
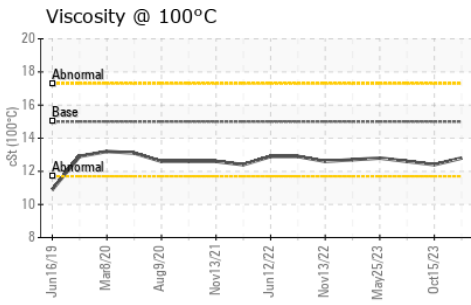
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	1
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	1.5	<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</b>	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.6</b>	7.2	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.4</b>	22.2	23.2
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>38</b>	32	28
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>39</b>	40	40
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	256	<b>497</b>	501	498
Calcium	ppm	ASTM D5185(m)	2057	<b>1660</b>	1703	1612
Phosphorus	ppm	ASTM D5185(m)	935	<b>921</b>	905	974
Zinc	ppm	ASTM D5185(m)	1223	<b>1069</b>	1066	1053
Sulfur	ppm	ASTM D5185(m)	4079	<b>2502</b>	2386	2380
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.6</b>	20.1	20.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>12.8</b>	12.4	12.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP392811 **Received** : 06 Mar 2024  
**Lab Number** : 02620153 **Tested** : 06 Mar 2024  
**Unique Number** : 5737263 **Diagnosed** : 06 Mar 2024 - Wes Davis  
**Test Package** : MOB 1

**CRH CANADA GROUP 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.

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F: