



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[399876]**

Machine Id  
**622667**

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>VCP450209</b>	VCP391835	VCP394895
Sample Date		Client Info		<b>13 Apr 2024</b>	10 Nov 2023	31 May 2023
Machine Age	hrs	Client Info		<b>3000</b>	2500	1466
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	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>65</b>	74	61
Chromium	ppm	ASTM D5185(m)	>10	<b>1</b>	1	2
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>3</b>	2	4
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;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

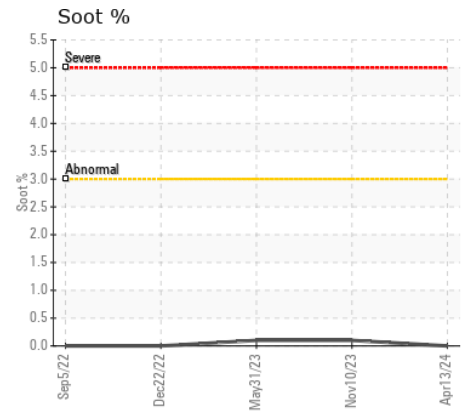
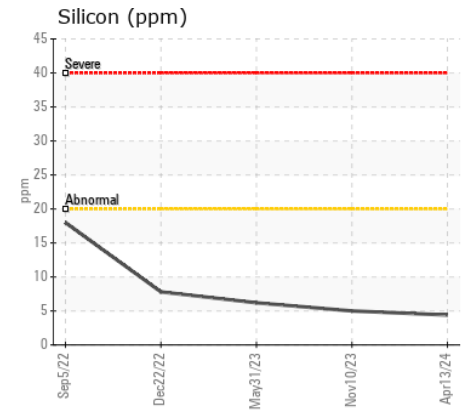
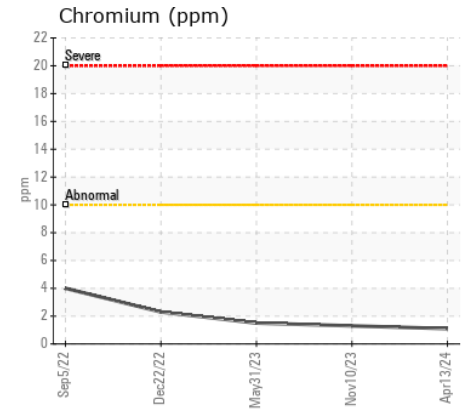
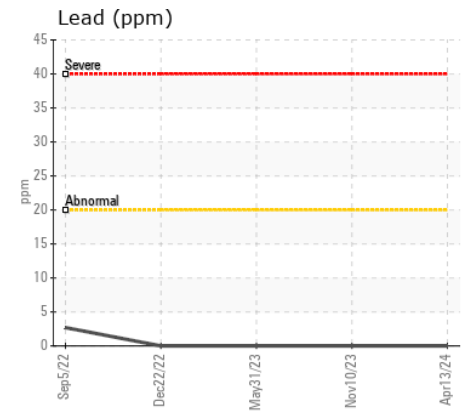
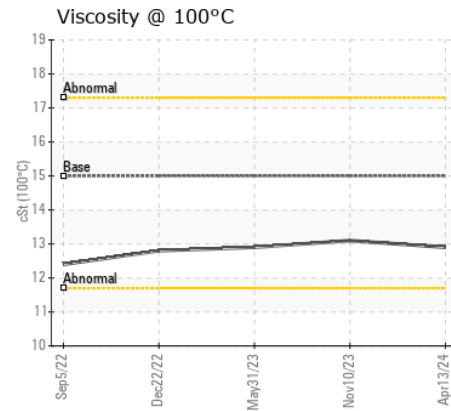
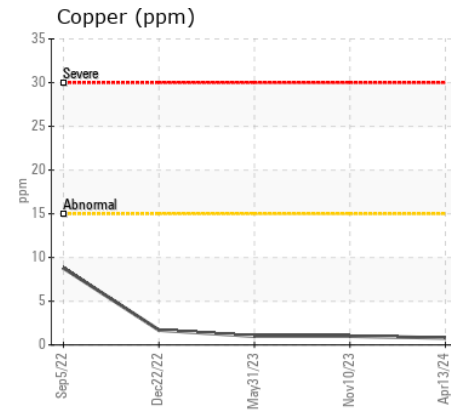
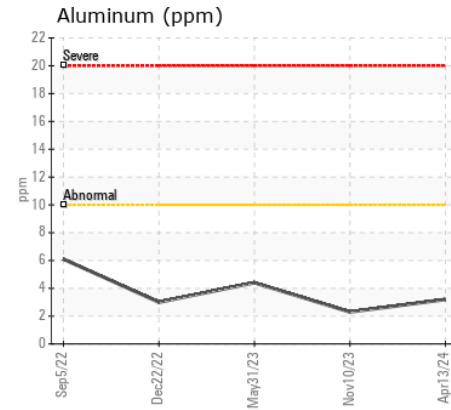
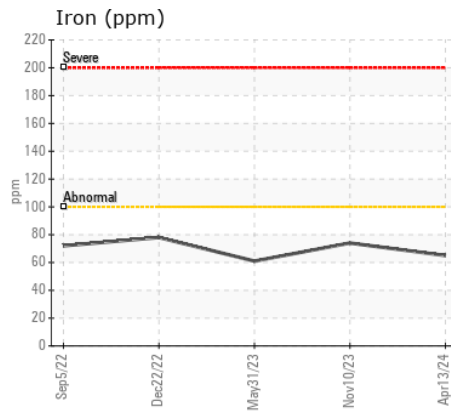
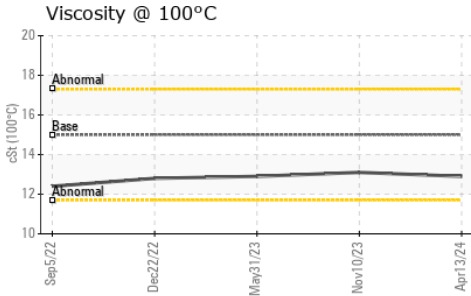
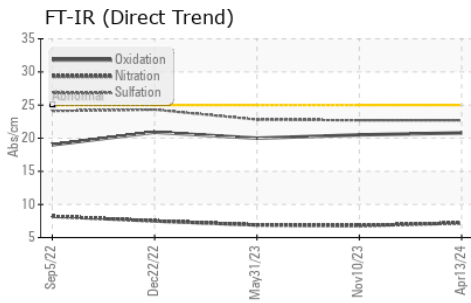
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<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</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.2</b>	6.8	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.7</b>	22.7	22.8
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>45</b>	36	48
Barium	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>40</b>	41	39
Manganese	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	256	<b>523</b>	509	476
Calcium	ppm	ASTM D5185(m)	2057	<b>1745</b>	1699	1706
Phosphorus	ppm	ASTM D5185(m)	935	<b>929</b>	916	954
Zinc	ppm	ASTM D5185(m)	1223	<b>1086</b>	1078	1031
Sulfur	ppm	ASTM D5185(m)	4079	<b>2377</b>	2355	2363
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.8</b>	20.5	20.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>12.9</b>	13.1	12.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP450209  
**Lab Number** : 02629550  
**Unique Number** : 5762682  
**Test Package** : MOB 1  
**Received** : 17 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 17 Apr 2024 - Wes Davis

**CRH CANADA GROUP INC.**  
 P.O. BOX 5400  
 CONCORD, ON  
 CA L4K 1B6  
 Contact: Dan Brown  
 dan.brown@ca.crh.com

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: