



# OIL ANALYSIS REPORT

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

Area

**[400407]**

Machine Id

**16-8024**

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>VCP393878</b>	VCP430139	VCP391636
Sample Date		Client Info		<b>13 Apr 2024</b>	10 Dec 2023	29 Sep 2023
Machine Age	hrs	Client Info		<b>10500</b>	10000	9500
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>	4	5
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

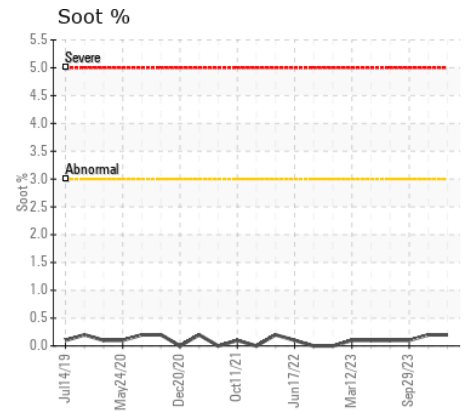
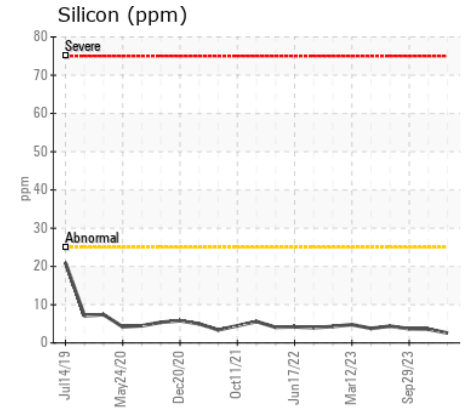
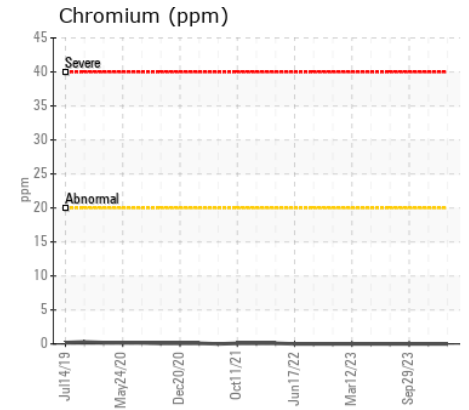
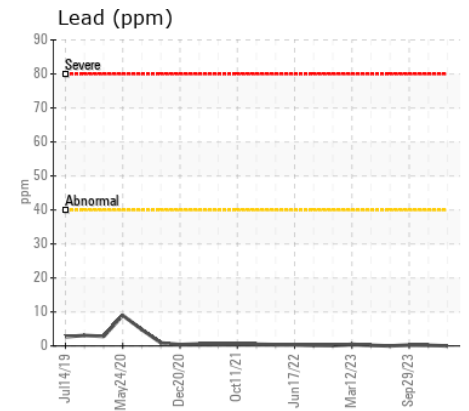
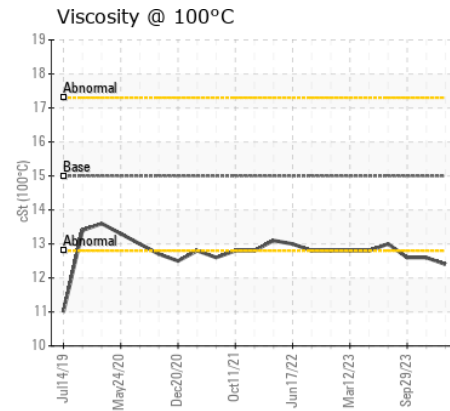
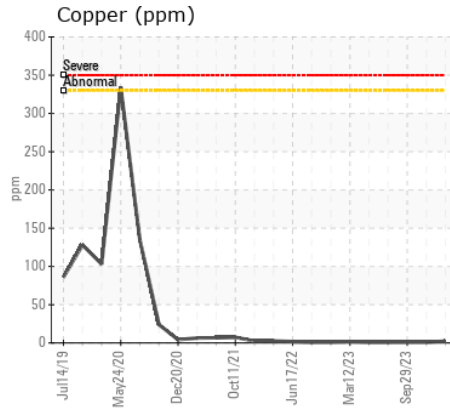
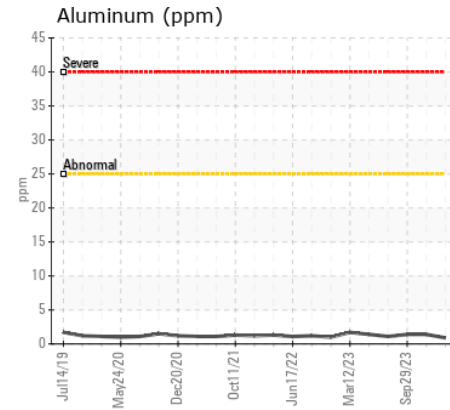
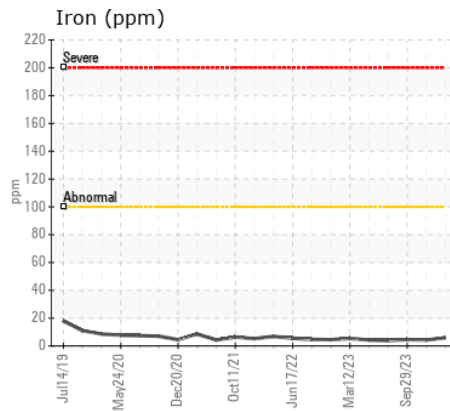
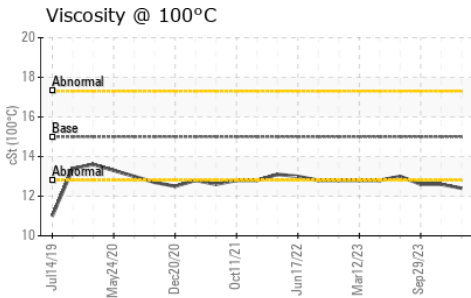
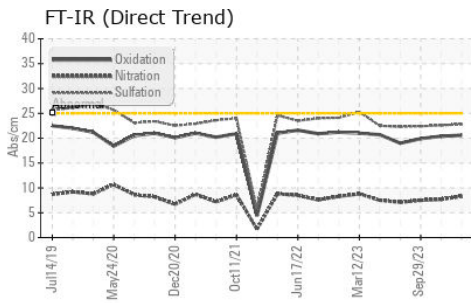
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	1.1
Water		WC Method	>0.2	<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>8.3</b>	7.7	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.8</b>	22.6	22.4
Emulsified Water	scalar	Visual*	>0.2	<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>36</b>	34	32
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>40</b>	40	41
Manganese	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	256	<b>510</b>	497	504
Calcium	ppm	ASTM D5185(m)	2057	<b>1717</b>	1682	1709
Phosphorus	ppm	ASTM D5185(m)	935	<b>924</b>	909	909
Zinc	ppm	ASTM D5185(m)	1223	<b>1085</b>	1067	1080
Sulfur	ppm	ASTM D5185(m)	4079	<b>2365</b>	2369	2407
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.6</b>	20.4	19.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>12.4</b>	12.6	12.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP393878  
**Lab Number** : 02629549  
**Unique Number** : 5762681  
**Test Package** : MOB 1

**Received** : 17 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 17 Apr 2024 - Wes Davis

**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: