



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[387923]**  
 Machine Id  
**16-8026**

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>VCP394110</b>	VCP429738	VCP394616
Sample Date		Client Info		<b>06 Jan 2024</b>	01 Oct 2023	04 Aug 2023
Machine Age	hrs	Client Info		<b>11500</b>	10990	10489
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>5</b>	5	5
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>	1	2
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

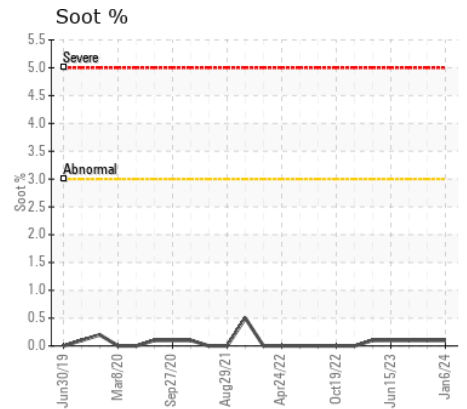
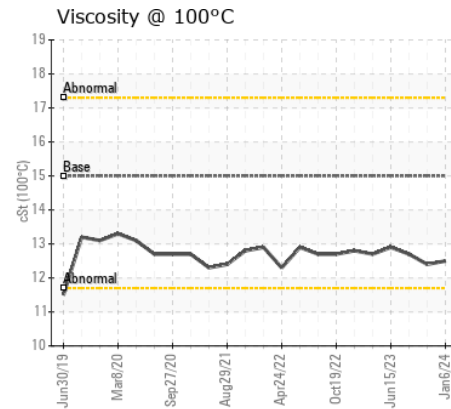
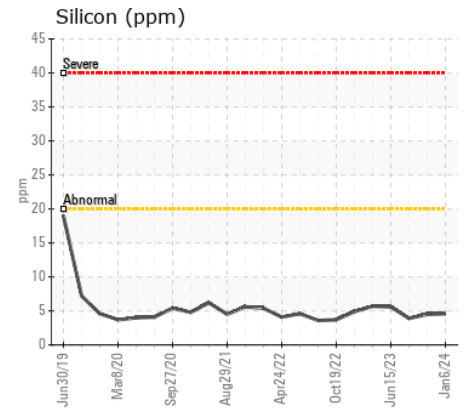
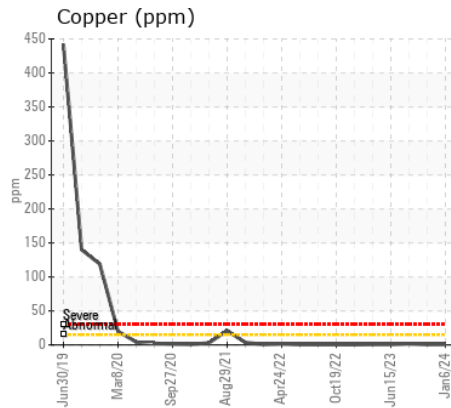
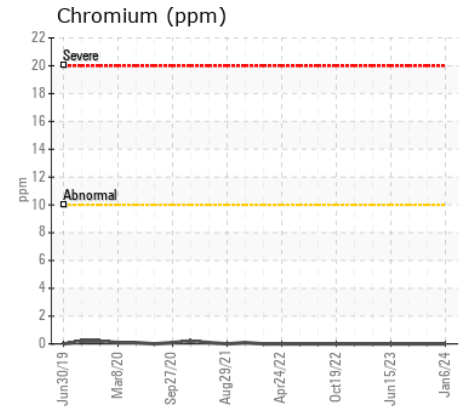
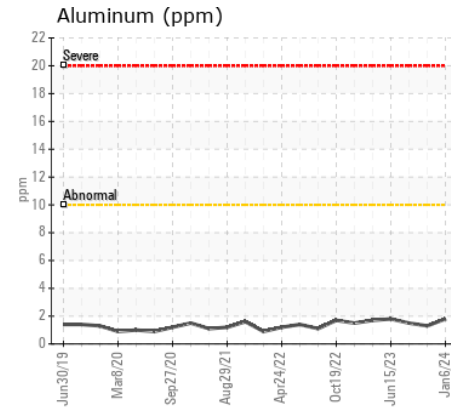
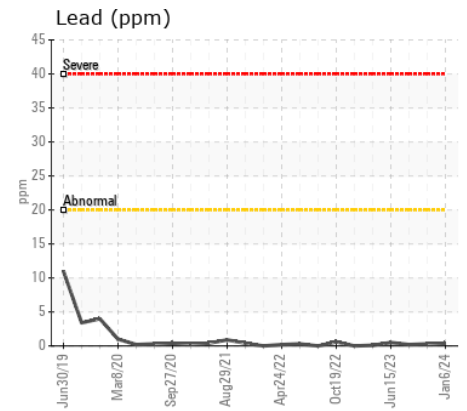
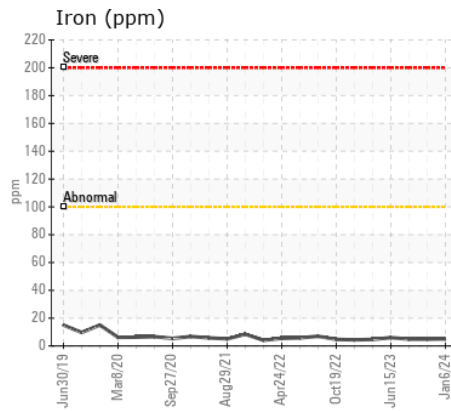
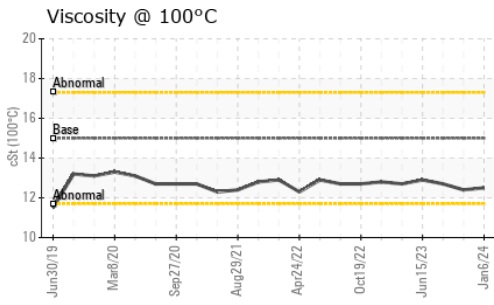
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	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>0.1</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.1</b>	7.7	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.4</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>	2	3
Boron	ppm	ASTM D5185(m)	2.5	<b>33</b>	26	33
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>38</b>	41	40
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	256	<b>505</b>	505	501
Calcium	ppm	ASTM D5185(m)	2057	<b>1666</b>	1711	1705
Phosphorus	ppm	ASTM D5185(m)	935	<b>865</b>	908	975
Zinc	ppm	ASTM D5185(m)	1223	<b>986</b>	1078	1102
Sulfur	ppm	ASTM D5185(m)	4079	<b>2419</b>	2386	2428
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.5</b>	20.4	20.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>12.5</b>	12.4	12.7



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP394110 **Received** : 23 Jan 2024  
**Lab Number** : 02610537 **Diagnosed** : 23 Jan 2024  
**Unique Number** : 5711623 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**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.

T:  
F: