



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**[402714]**

Machine Id  
**16-8012**

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		VCP394261	VCP394155	VCP380095
Sample Date		Client Info		13 May 2024	12 Feb 2024	12 Dec 2023
Machine Age	hrs	Client Info		11045	10457	10059
Oil Age	hrs	Client Info		1000	500	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	5	5	6
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	2	1
Lead	ppm	ASTM D5185(m)	>20	0	<1	0
Copper	ppm	ASTM D5185(m)	>15	<1	1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

### CONTAMINATION

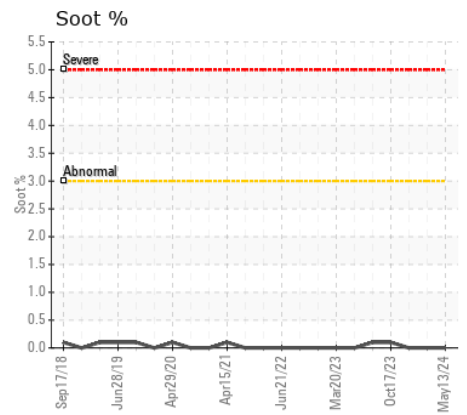
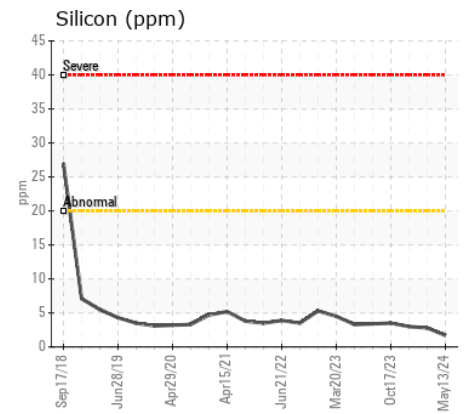
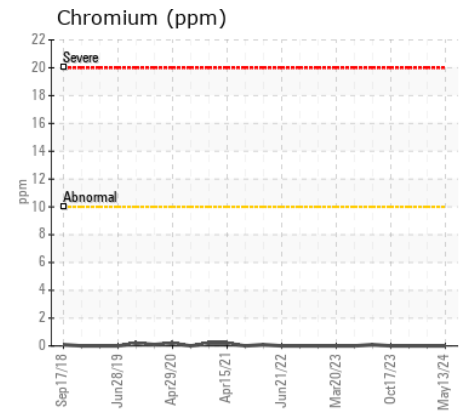
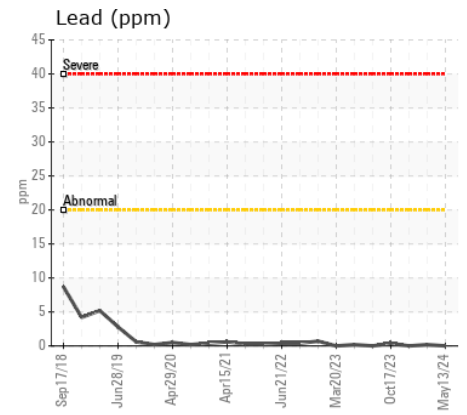
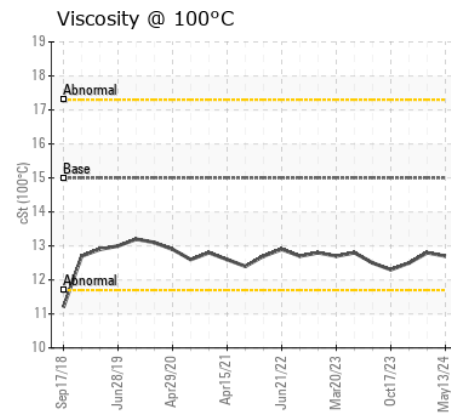
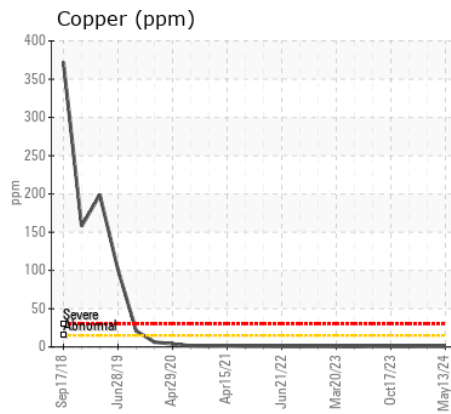
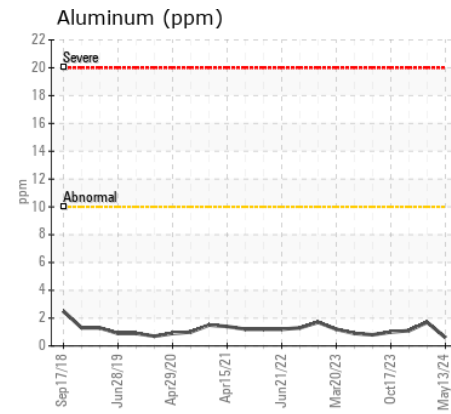
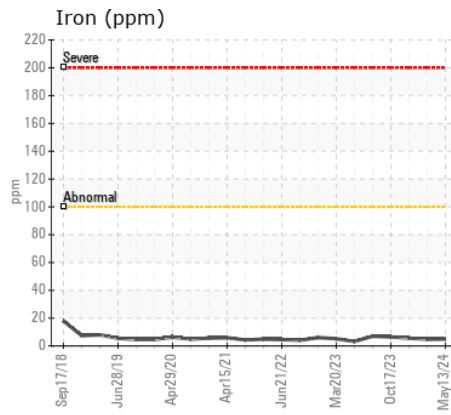
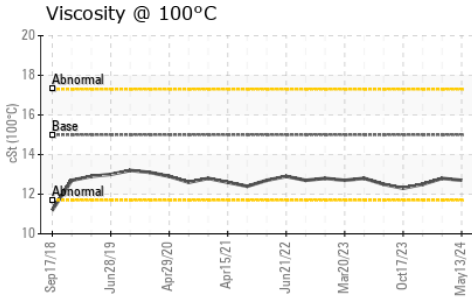
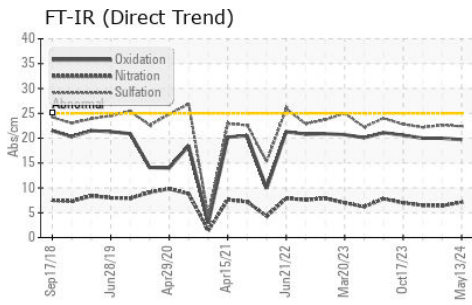
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.1	6.4	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.4	22.6	22.2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	3
Boron	ppm	ASTM D5185(m)	2.5	43	50	44
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	37	39	42
Manganese	ppm	ASTM D5185(m)	0.0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	256	485	497	515
Calcium	ppm	ASTM D5185(m)	2057	1618	1694	1673
Phosphorus	ppm	ASTM D5185(m)	935	863	911	891
Zinc	ppm	ASTM D5185(m)	1223	1025	1040	1074
Sulfur	ppm	ASTM D5185(m)	4079	2273	2554	2391
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.7	20.0	20.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.7	12.8	12.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP394261  
**Lab Number** : 02637127  
**Unique Number** : 5786289  
**Test Package** : MOB 1

**CRH CANADA GROUP INC.**  
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 CONCORD, ON  
 CA L4K 1B6  
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 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: