



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[400402]

Machine Id
16-8112

Component
Diesel Engine

Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP393869	VCP430141	VCP380506
Sample Date		Client Info		10 Apr 2024	11 Dec 2023	25 Oct 2023
Machine Age	hrs	Client Info		10000	9500	9000
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		0	500	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	4	4	4
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	1	1
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>15	2	1	2
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

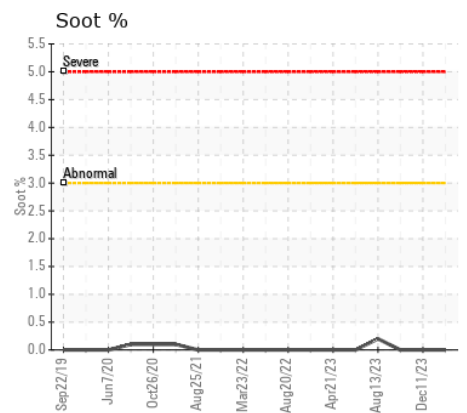
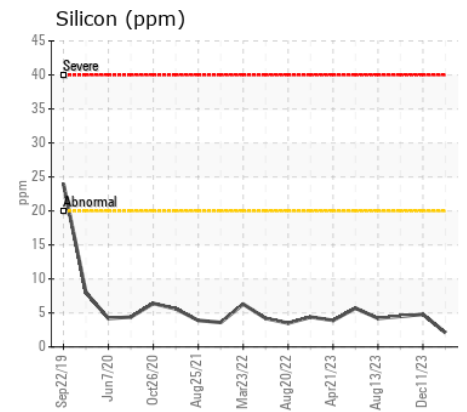
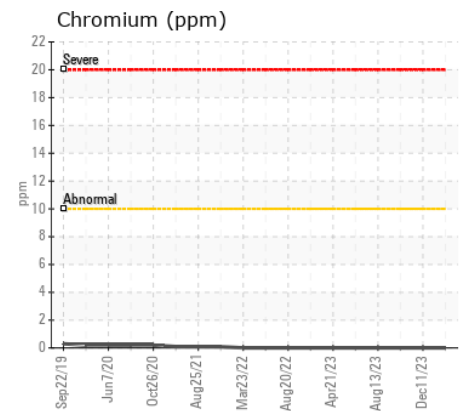
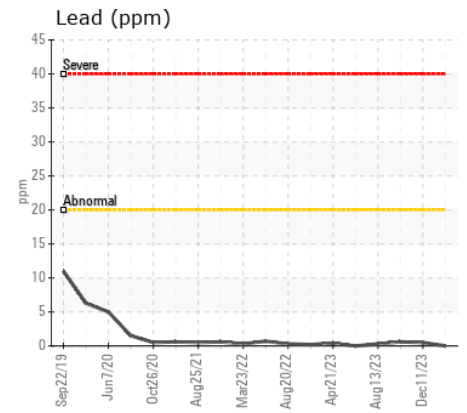
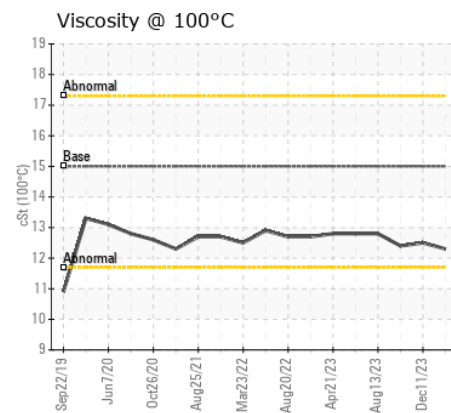
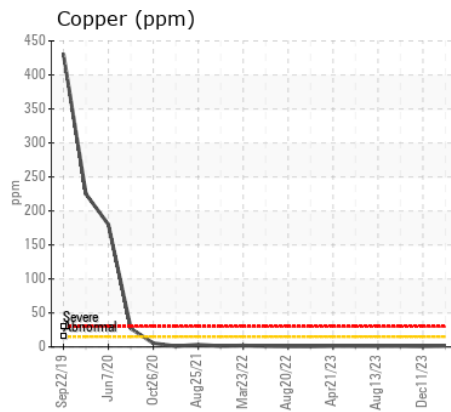
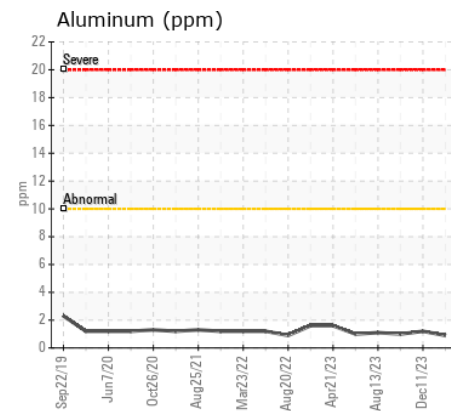
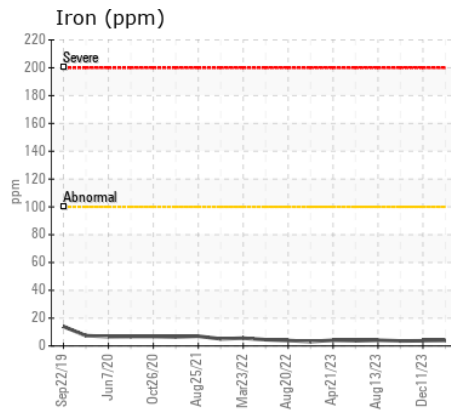
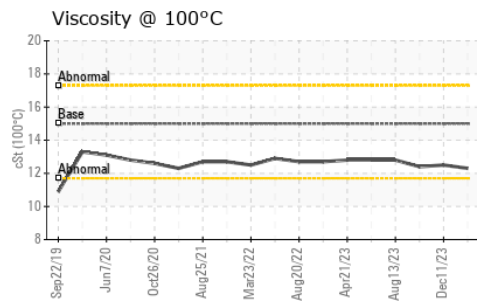
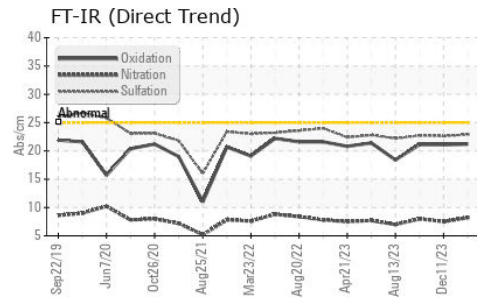
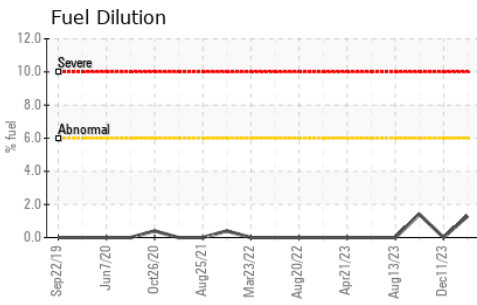
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	2	5	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel	%	ASTM D7593*	>6.0	1.3	<1.0	1.4
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	8.2	7.5	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	22.6	22.7
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	3	2
Boron	ppm	ASTM D5185(m)	2.5	40	37	26
Barium	ppm	ASTM D5185(m)	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.7	41	40	40
Manganese	ppm	ASTM D5185(m)	0.0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	256	514	502	497
Calcium	ppm	ASTM D5185(m)	2057	1711	1687	1717
Phosphorus	ppm	ASTM D5185(m)	935	932	901	904
Zinc	ppm	ASTM D5185(m)	1223	1081	1067	1069
Sulfur	ppm	ASTM D5185(m)	4079	2394	2347	2345
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.2	21.1	21.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.3	12.5	12.4



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP393869
Lab Number : 02629548
Unique Number : 5762680
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

Received : 17 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 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.

T:
F: