



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
REGION OF WATERLOO [406065]

Machine Id
VOLVO L120H 633154

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		VCP448169	VCP393894	VCP379998
Sample Date		Client Info		29 May 2024	18 Mar 2024	31 Oct 2023
Machine Age	hrs	Client Info		5042	4500	3500
Oil Age	hrs	Client Info		500	500	500
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	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	12	11	12
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	7	6	6
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>20	<1	<1	2
Tin	ppm	ASTM D5185(m)	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

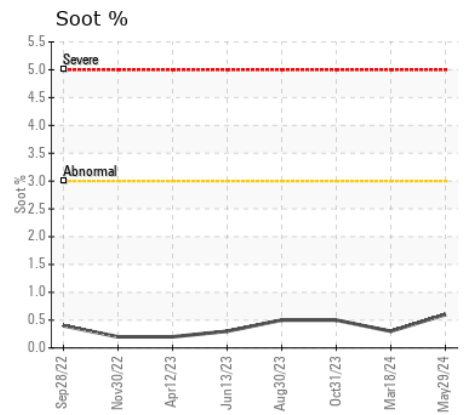
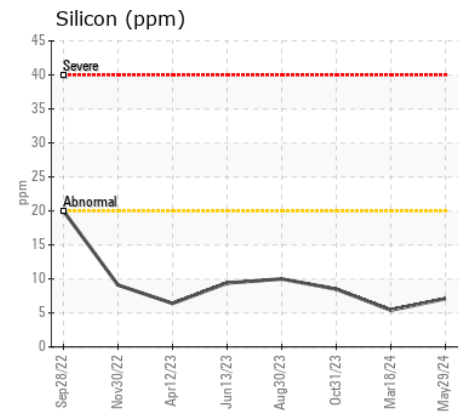
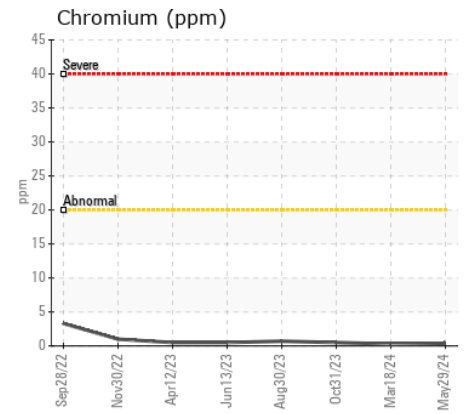
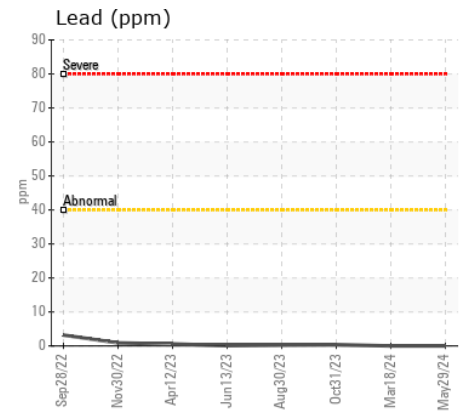
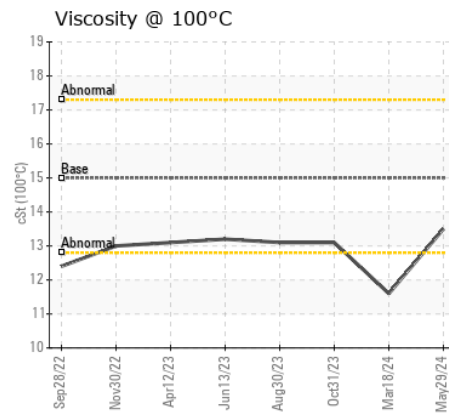
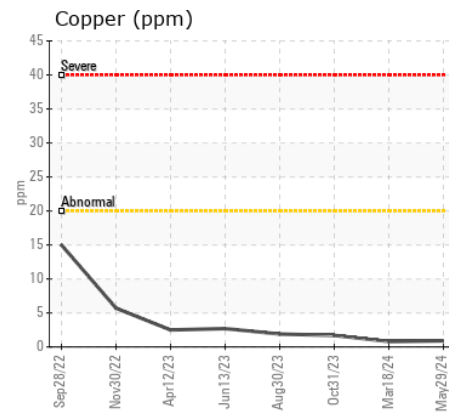
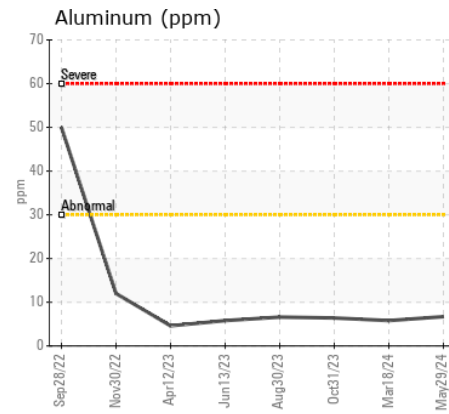
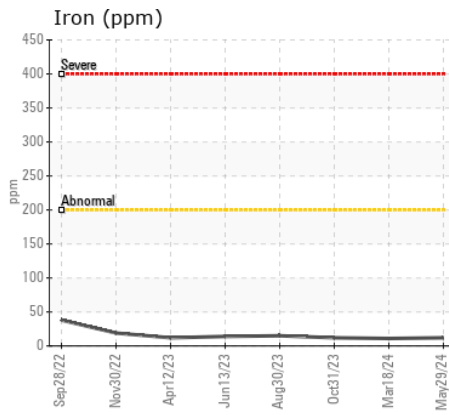
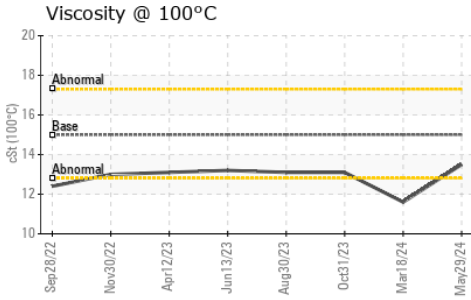
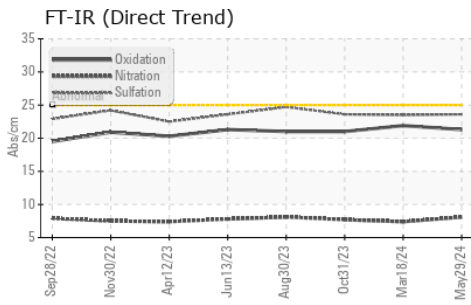
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	7	5	8
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel		WC Method	>6.0	<1.0	1.8	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.6	0.3	0.5
Nitration	Abs/cm	ASTM D7624*	>20	8.1	7.4	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	23.5	23.6
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	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	27	36	27
Barium	ppm	ASTM D5185(m)	0.0	0	0	<1
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	513	511	501
Calcium	ppm	ASTM D5185(m)	2057	1762	1733	1713
Phosphorus	ppm	ASTM D5185(m)	935	968	898	898
Zinc	ppm	ASTM D5185(m)	1223	1109	1071	1068
Sulfur	ppm	ASTM D5185(m)	4079	2370	2289	2280
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.3	21.9	21.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.5	▲ 11.6	13.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP448169 **Received** : 05 Jun 2024
Lab Number : 02639814 **Tested** : 06 Jun 2024
Unique Number : 5788976 **Diagnosed** : 06 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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