



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[WO1005669]

Machine Id

VOLVO L120H 632892

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		VCP392450	VCP335158	VCP382309
Sample Date		Client Info		14 Jun 2024	20 Dec 2023	02 Jun 2023
Machine Age	hrs	Client Info		3001	2489	1983
Oil Age	hrs	Client Info		3001	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	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	11	11	10
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	4	4	4
Lead	ppm	ASTM D5185(m)	>40	<1	2	1
Copper	ppm	ASTM D5185(m)	>20	7	6	6
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

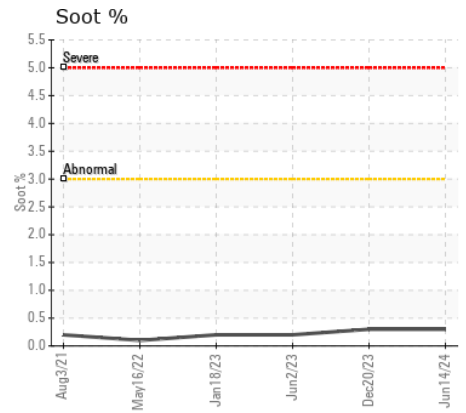
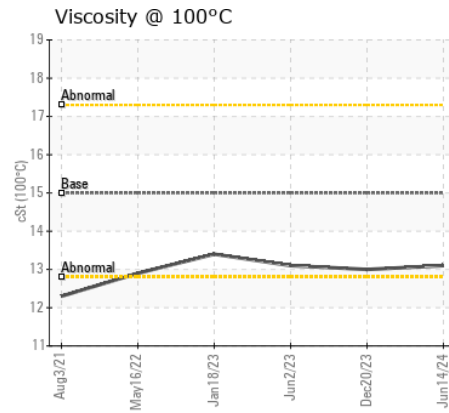
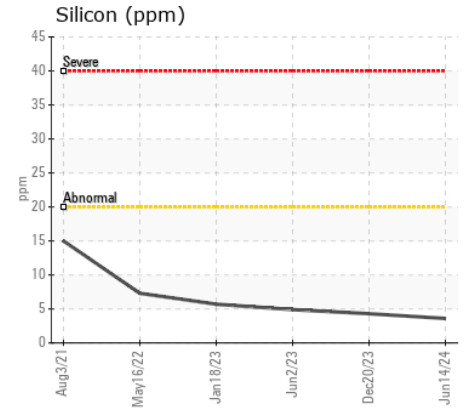
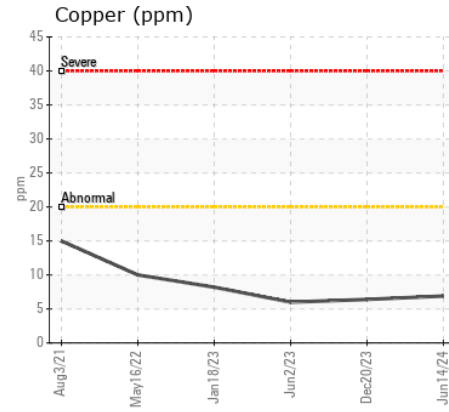
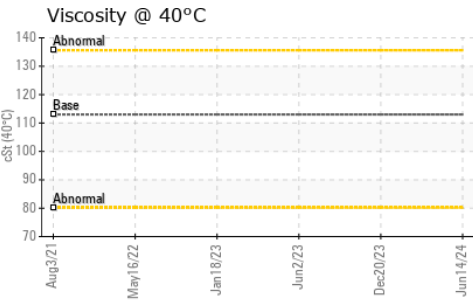
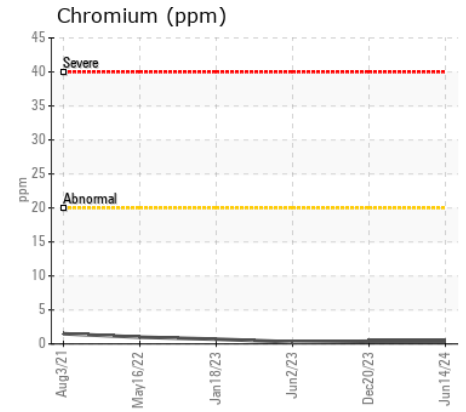
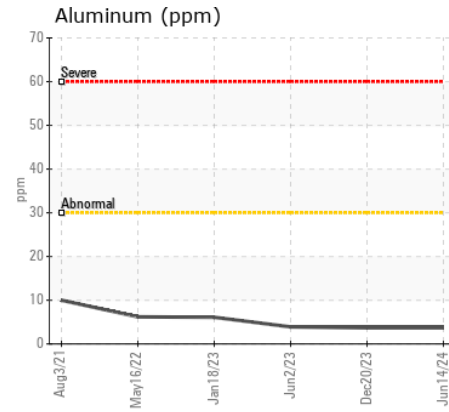
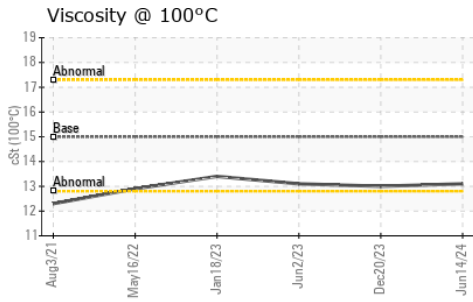
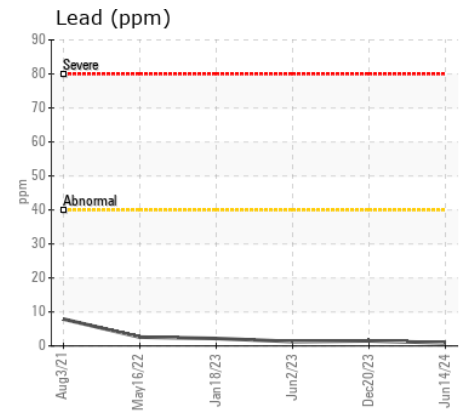
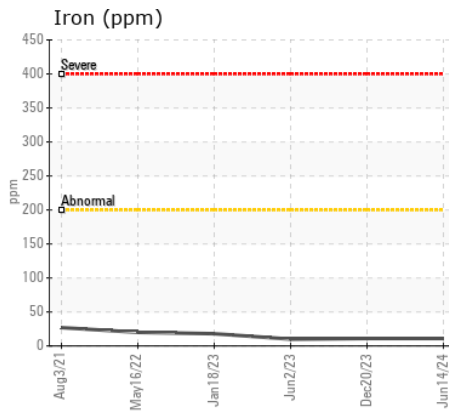
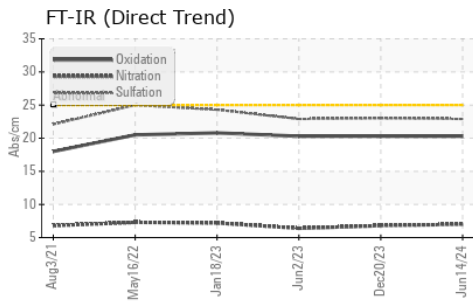
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	4	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.8	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	23.0	22.9
Silt	scalar	Visual*	NONE	NONE	---	---
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	2
Boron	ppm	ASTM D5185(m)	2.5	41	37	47
Barium	ppm	ASTM D5185(m)	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	41	41	41
Manganese	ppm	ASTM D5185(m)	0.0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	256	500	501	506
Calcium	ppm	ASTM D5185(m)	2057	1662	1684	1760
Phosphorus	ppm	ASTM D5185(m)	935	908	935	999
Zinc	ppm	ASTM D5185(m)	1223	1075	1068	1083
Sulfur	ppm	ASTM D5185(m)	4079	2348	2508	2463
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	20.3	20.3
Visc @ 40°C	cSt	ASTM D7279(m)	113	95.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.1	13.0	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	138	134	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP392450 **Received** : 25 Jun 2024
Lab Number : 02644012 **Tested** : 26 Jun 2024
Unique Number : 5801551 **Diagnosed** : 26 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

CITY OF KELOWNA
 1435 WATER STREET
 KELOWNA, BC
 CA V1Y 1J4
 Contact: Myles Bancarz
 mbancarz@kelowna.ca
 T: (250)763-6011
 F: (250)868-3330

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.