



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L110H 631929

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		VCP394571	VCP381880	VCP381876
Sample Date		Client Info		20 Dec 2023	06 Jun 2023	15 Mar 2023
Machine Age	hrs	Client Info		6002	5000	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	8	10	10
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	4	4	6
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>15	1	1	1
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

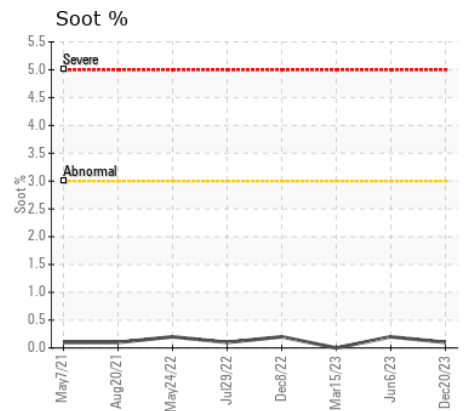
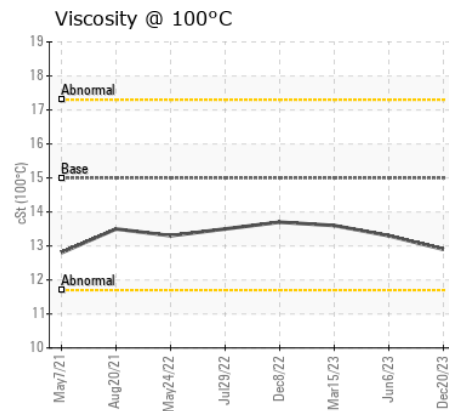
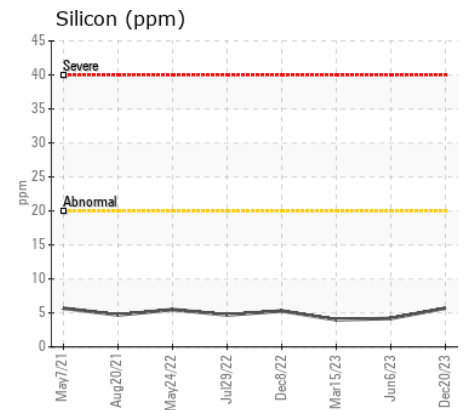
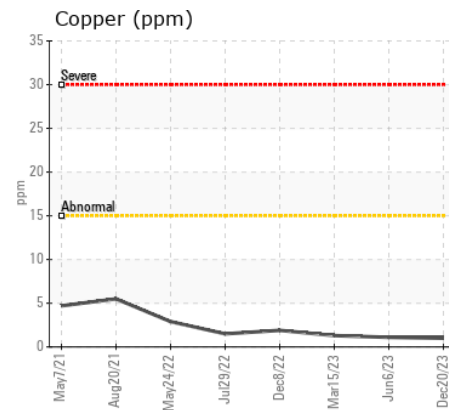
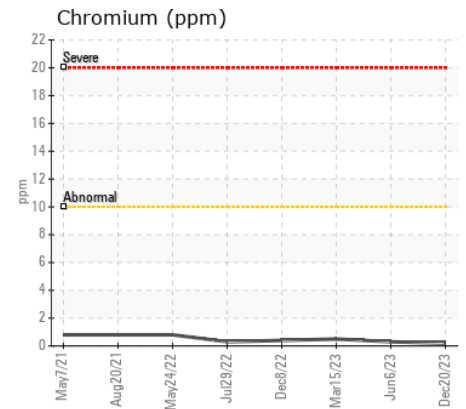
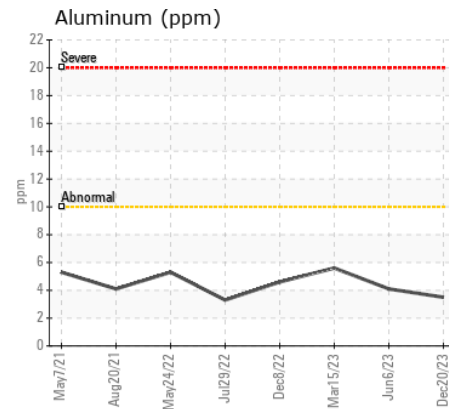
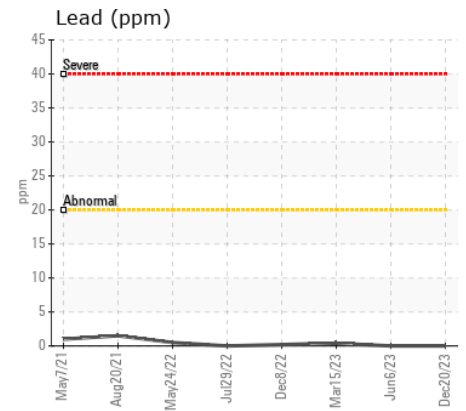
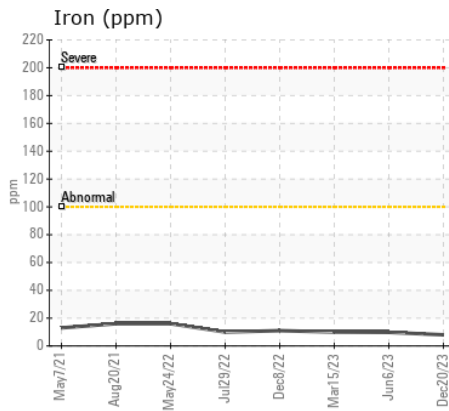
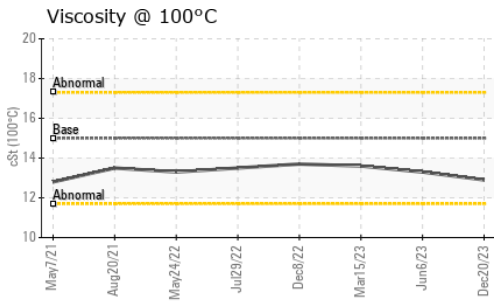
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<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	0.1	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	7.2	7.6	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	23.0	22.6
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	2
Boron	ppm	ASTM D5185(m)	2.5	36	36	36
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	42	42	42
Manganese	ppm	ASTM D5185(m)	0.0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	256	508	496	539
Calcium	ppm	ASTM D5185(m)	2057	1708	1670	1723
Phosphorus	ppm	ASTM D5185(m)	935	939	953	1009
Zinc	ppm	ASTM D5185(m)	1223	1075	1029	1095
Sulfur	ppm	ASTM D5185(m)	4079	2528	2329	2461
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.5	21.1	14.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.9	13.3	13.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP394571 **Received** : 09 Jan 2024
Lab Number : 02607477 **Diagnosed** : 09 Jan 2024
Unique Number : 5708563 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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.