



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[8000391308]
 Machine Id
VOLVO L70H 622342
 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		VCP449339	VCP380126	VCP391744
Sample Date		Client Info		16 Jan 2024	20 Oct 2023	08 May 2023
Machine Age	hrs	Client Info		14046	13516	12522
Oil Age	hrs	Client Info		530	521	480
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	14	7	8
Chromium	ppm	ASTM D5185(m)	>20	2	<1	1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	5	2	4
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>20	2	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

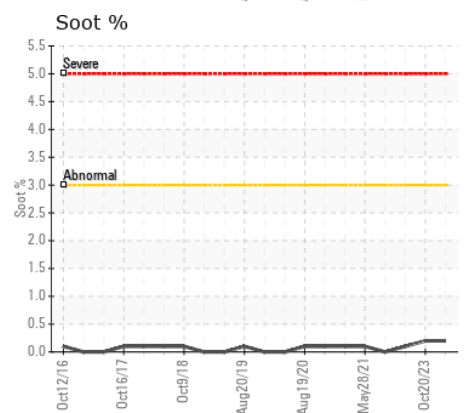
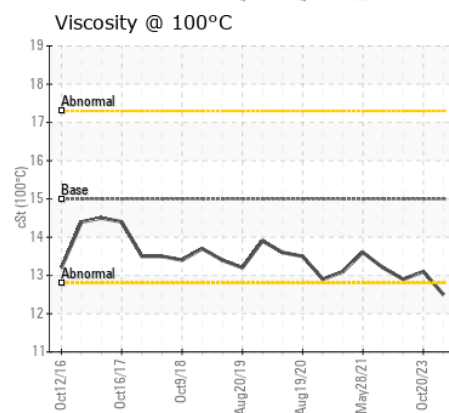
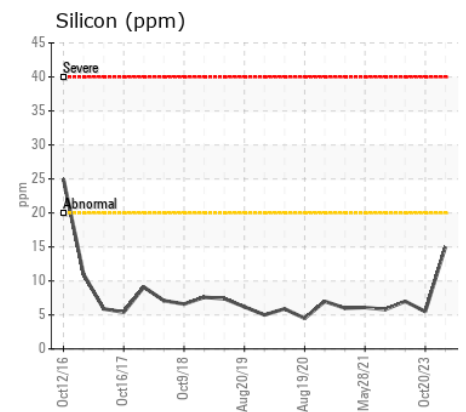
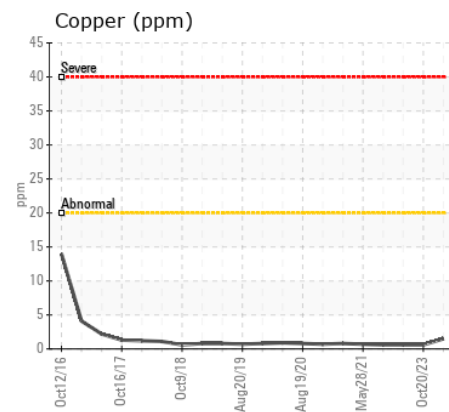
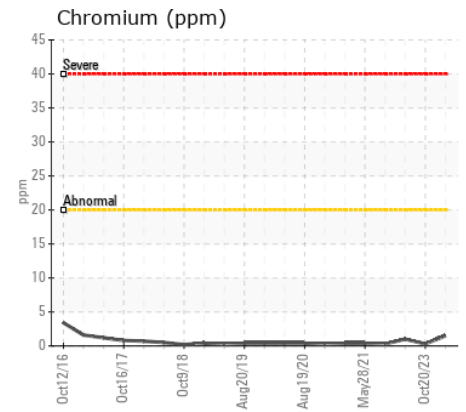
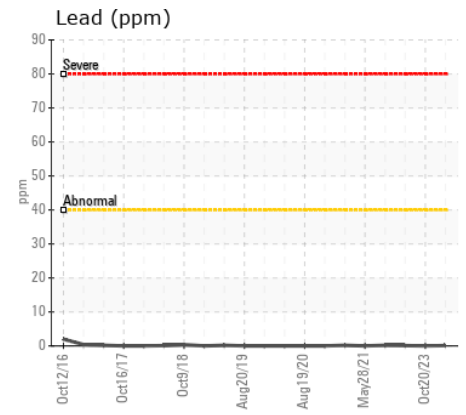
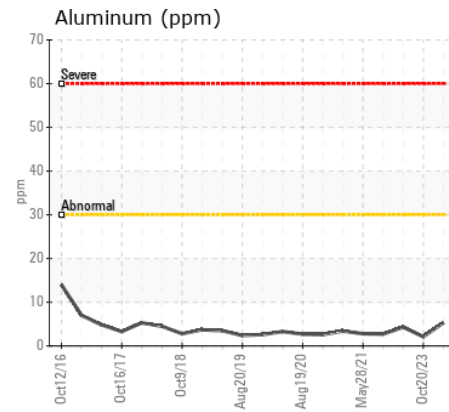
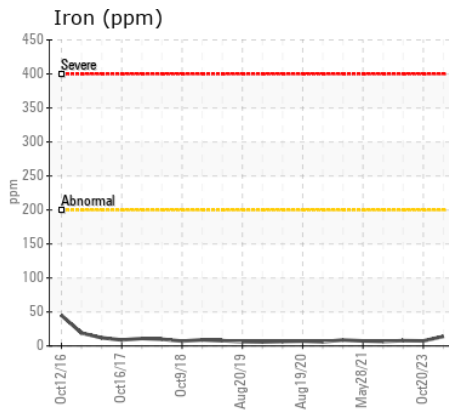
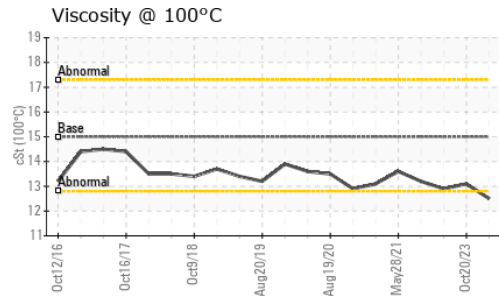
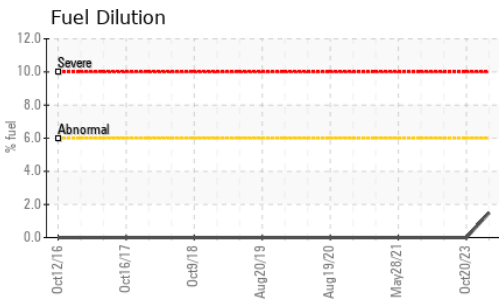
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	15	6	7
Potassium	ppm	ASTM D5185(m)	>20	1	0	<1
Fuel	%	ASTM D7593*	>6.0	1.5	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.6	8.2	7.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	22.9	22.4
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)		3	3	3
Boron	ppm	ASTM D5185(m)	2.5	30	28	37
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	38	43	40
Manganese	ppm	ASTM D5185(m)	0.0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	256	484	521	504
Calcium	ppm	ASTM D5185(m)	2057	1659	1772	1727
Phosphorus	ppm	ASTM D5185(m)	935	883	964	1013
Zinc	ppm	ASTM D5185(m)	1223	1020	1124	1073
Sulfur	ppm	ASTM D5185(m)	4079	2440	2486	2649
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.1	21.5	20.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.5	13.1	12.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP449339 **Received** : 22 Jan 2024
Lab Number : 02610279 **Diagnosed** : 23 Jan 2024
Unique Number : 5711365 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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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.