



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[8000394672]
 Machine Id
VOLVO L60H 621575
 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		VCP393091	VCP391757	VCP352646
Sample Date		Client Info		13 Feb 2024	02 Jun 2023	19 Oct 2022
Machine Age	hrs	Client Info		7050	6320	5699
Oil Age	hrs	Client Info		730	621	1001
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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	28	28	36
Chromium	ppm	ASTM D5185(m)	>10	1	2	2
Nickel	ppm	ASTM D5185(m)	>10	<1	<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	18	▲ 27	▲ 20
Lead	ppm	ASTM D5185(m)	>20	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>15	2	2	3
Tin	ppm	ASTM D5185(m)	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

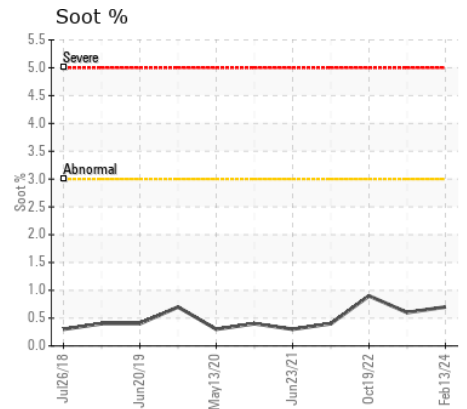
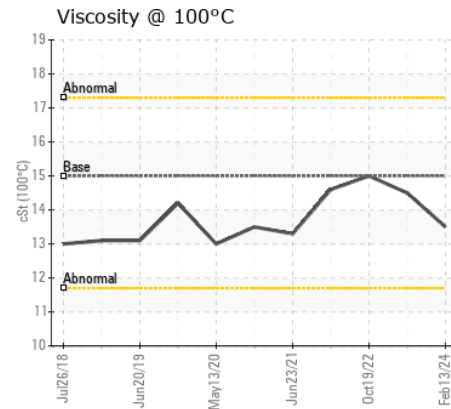
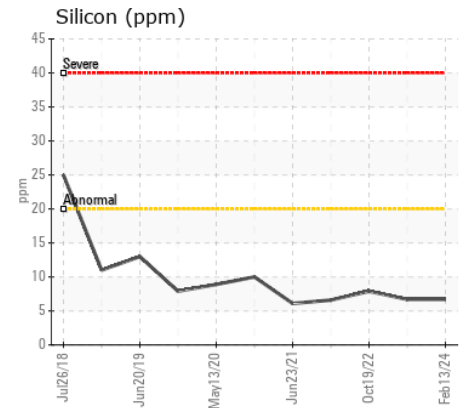
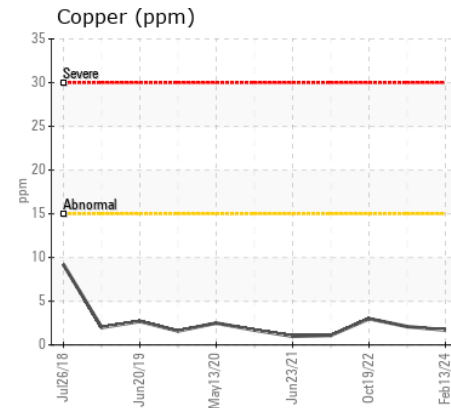
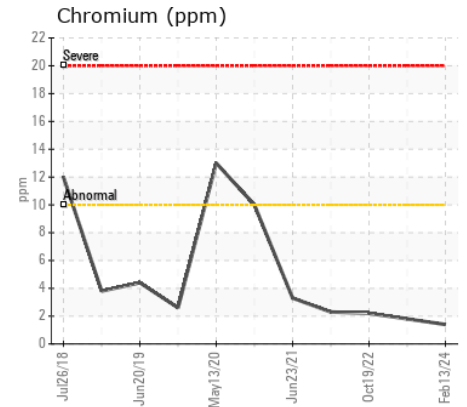
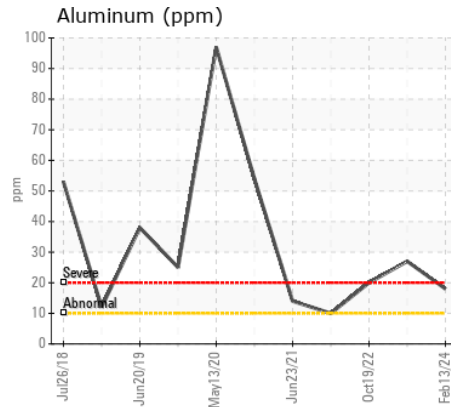
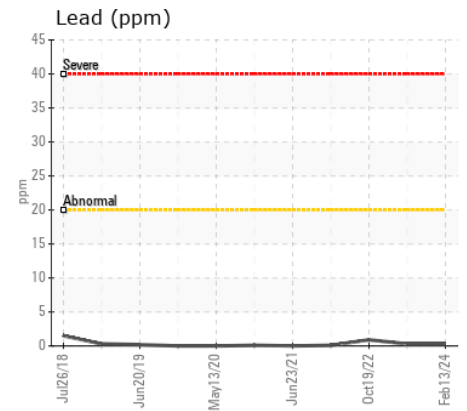
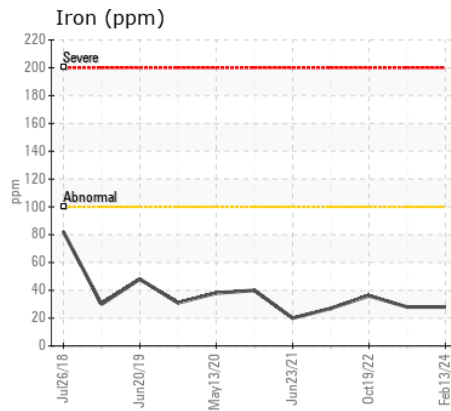
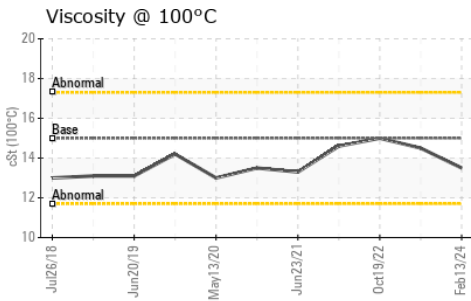
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	7	7	8
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
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	0.7	0.6	0.9
Nitration	Abs/cm	ASTM D7624*	>20	11.0	10.7	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6	25.1	28.6
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)		3	3	3
Boron	ppm	ASTM D5185(m)	2.5	23	25	19
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	40	19	47
Manganese	ppm	ASTM D5185(m)	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	256	569	804	619
Calcium	ppm	ASTM D5185(m)	2057	1605	1496	1823
Phosphorus	ppm	ASTM D5185(m)	935	930	900	1099
Zinc	ppm	ASTM D5185(m)	1223	1061	955	1243
Sulfur	ppm	ASTM D5185(m)	4079	2636	2863	2832
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.6	17.8	25.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.5	14.5	15.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP393091
Lab Number : 02616525
Unique Number : 5733635
Test Package : MOB 1
Received : 20 Feb 2024
Tested : 20 Feb 2024
Diagnosed : 20 Feb 2024 - Kevin Marson

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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.