



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[8000408512]
 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		VCP450316	VCP393091	VCP391757
Sample Date		Client Info		20 Jun 2024	13 Feb 2024	02 Jun 2023
Machine Age	hrs	Client Info		7560	7050	6320
Oil Age	hrs	Client Info		509	730	621
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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	21	28	28
Chromium	ppm	ASTM D5185(m)	>10	1	1	2
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	13	18	▲ 27
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>15	1	2	2
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

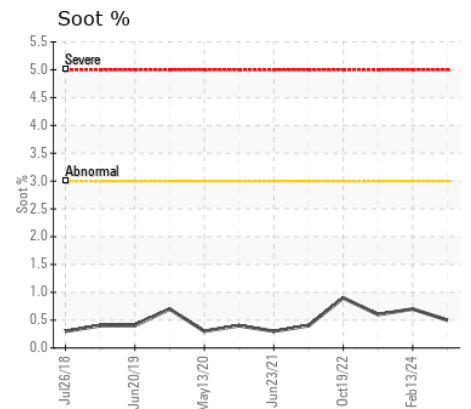
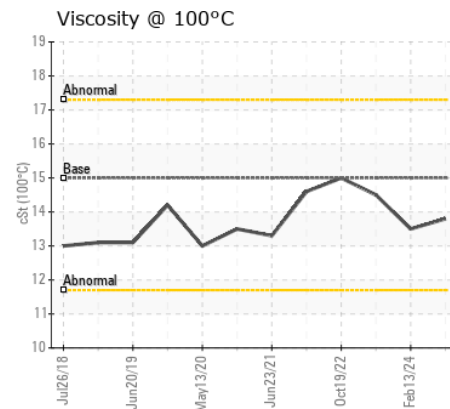
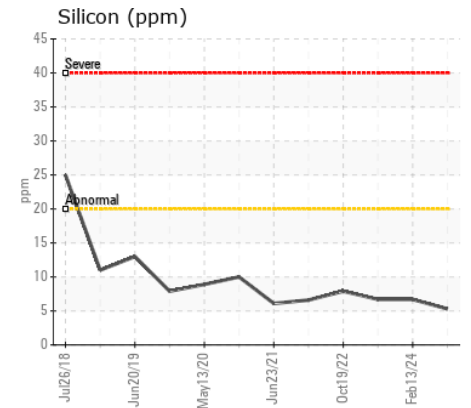
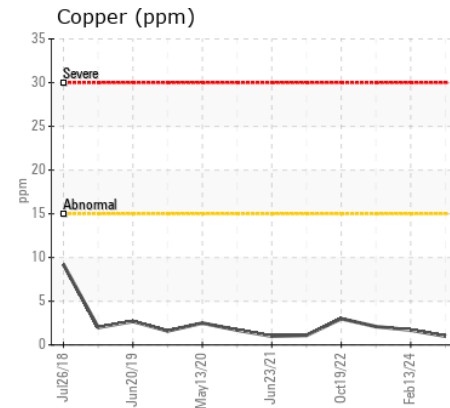
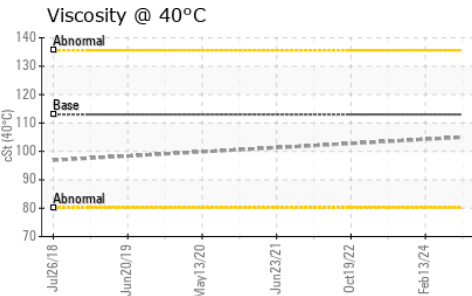
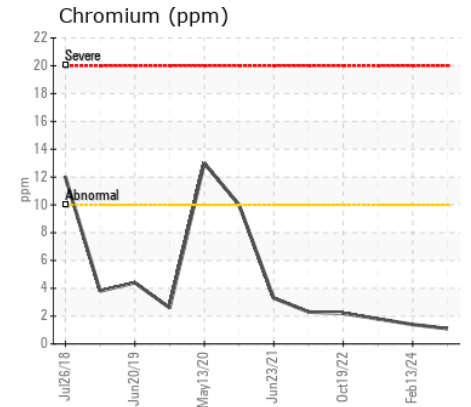
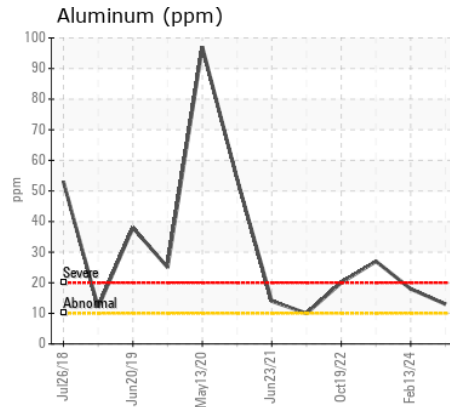
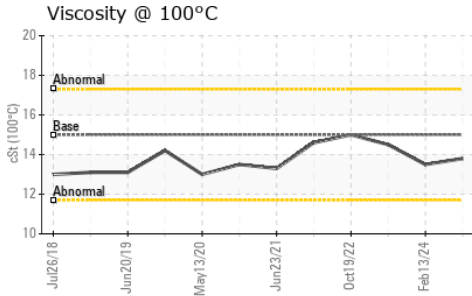
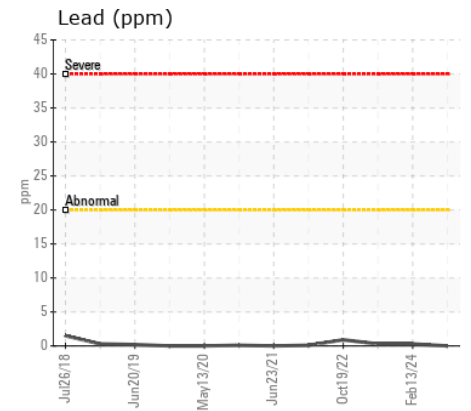
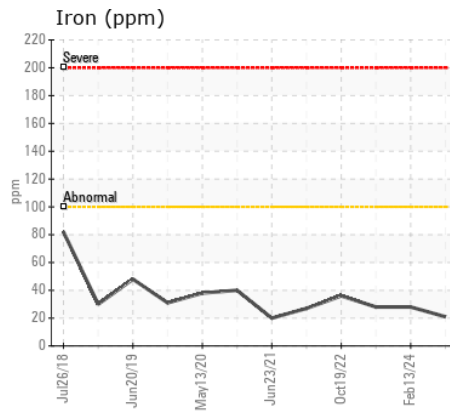
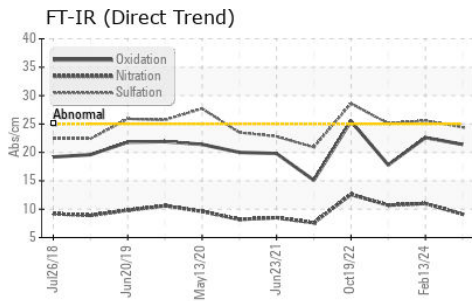
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	5	7	7
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
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	0.5	0.7	0.6
Nitration	Abs/cm	ASTM D7624*	>20	9.1	11.0	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	25.6	25.1
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*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	3	3
Boron	ppm	ASTM D5185(m)	2.5	28	23	25
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	41	40	19
Manganese	ppm	ASTM D5185(m)	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	256	553	569	804
Calcium	ppm	ASTM D5185(m)	2057	1670	1605	1496
Phosphorus	ppm	ASTM D5185(m)	935	910	930	900
Zinc	ppm	ASTM D5185(m)	1223	1113	1061	955
Sulfur	ppm	ASTM D5185(m)	4079	2487	2636	2863
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.4	22.6	17.8
Visc @ 40°C	cSt	ASTM D7279(m)	113	105	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.8	13.5	14.5
Viscosity Index (VI)	Scale	ASTM D2270*	138	131	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP450316
Lab Number : 02644125
Unique Number : 5801664
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 28 Jun 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.