



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
REGION OF WATERLOO [400929]

Machine Id
VOLVO L150H 6139

Component
Diesel Engine

Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP430078	VCP334254	VCP117672
Sample Date		Client Info		15 Apr 2024	22 Aug 2022	18 Aug 2020
Machine Age	hrs	Client Info		10000	8000	4307
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	4	3	2
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	0	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	0	<1	0
Copper	ppm	ASTM D5185(m)	>15	1	<1	1
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

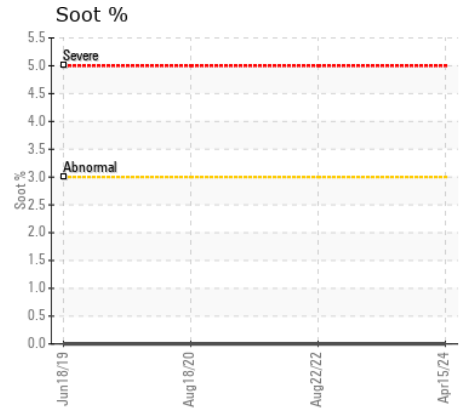
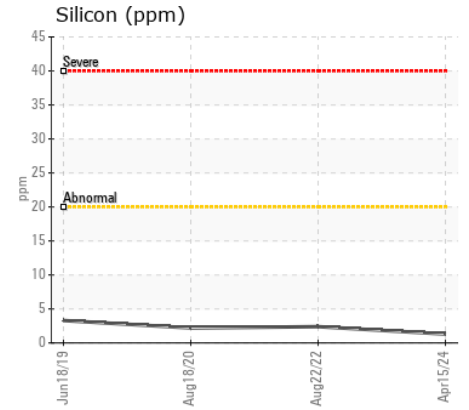
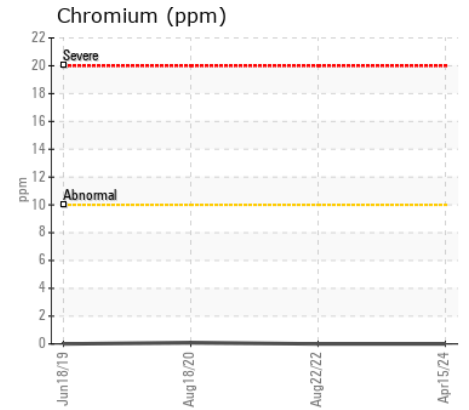
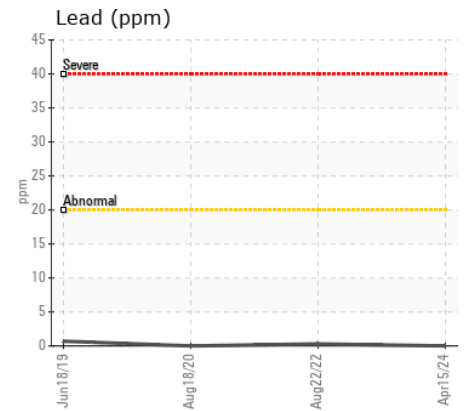
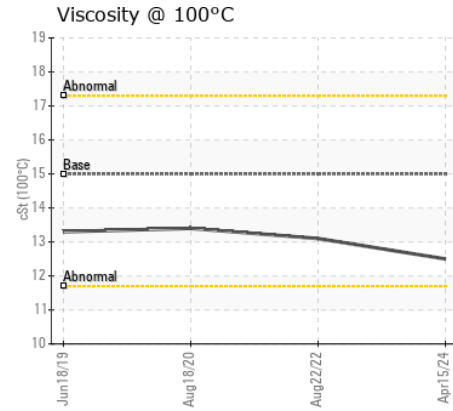
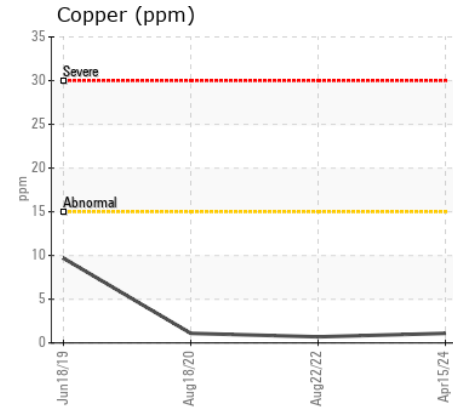
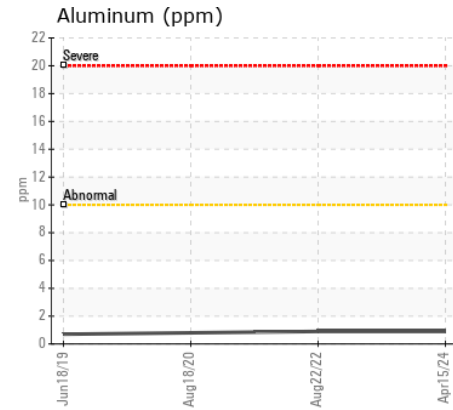
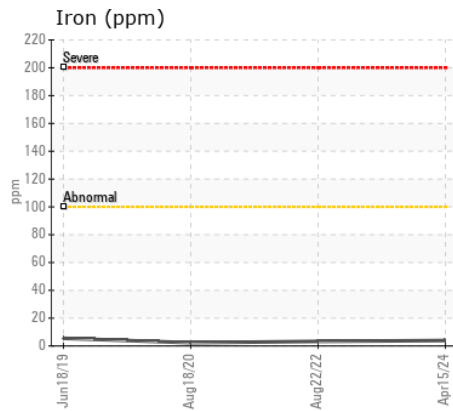
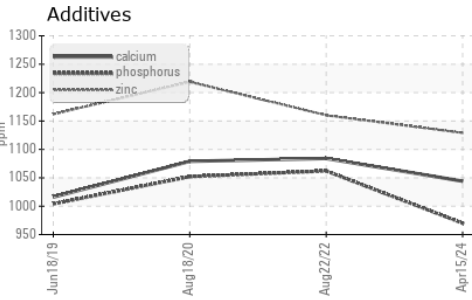
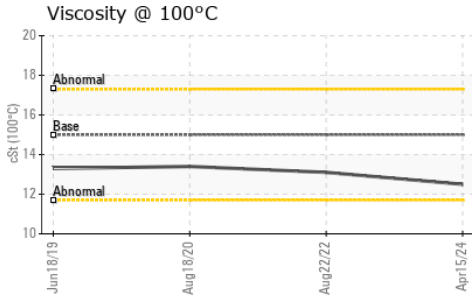
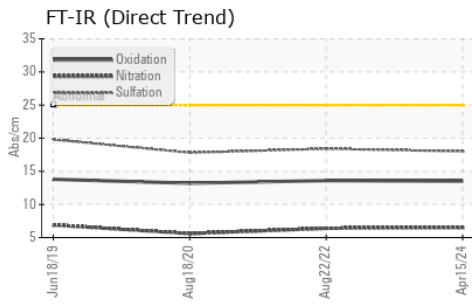
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	1	2	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<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	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.5	6.4	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	18.4	17.8
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	2	<1
Boron	ppm	ASTM D5185(m)	2.5	10	4	9
Barium	ppm	ASTM D5185(m)	0.0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0.7	58	57	59
Manganese	ppm	ASTM D5185(m)	0.0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	256	914	924	952
Calcium	ppm	ASTM D5185(m)	2057	1044	1084	1079
Phosphorus	ppm	ASTM D5185(m)	935	970	1062	1052
Zinc	ppm	ASTM D5185(m)	1223	1129	1160	1219
Sulfur	ppm	ASTM D5185(m)	4079	2510	2661	2762
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	13.6	13.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.5	13.1	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP430078
Lab Number : 02631313
Unique Number : 5772466
Test Package : MOB 1

Received : 25 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Wes Davis

Strongco Equipment
 5179 Fountain St N.
 Breslau, ON
 CA N0B 1M0
 Contact: Matt Crisci
 mcrisci@strongco.com
 T: (519)744-3518
 F: (519)744-3284

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.