



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[8000404697]

Machine Id

VOLVO L70H 622160

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		GFL381910	VCP392847	VCP394706
Sample Date		Client Info		21 May 2024	18 Dec 2023	14 Aug 2023
Machine Age	hrs	Client Info		8411	7792	7123
Oil Age	hrs	Client Info		500	500	600
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not 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	9	10	9
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	3	3	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>20	<1	<1	1
Tin	ppm	ASTM D5185(m)	>20	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

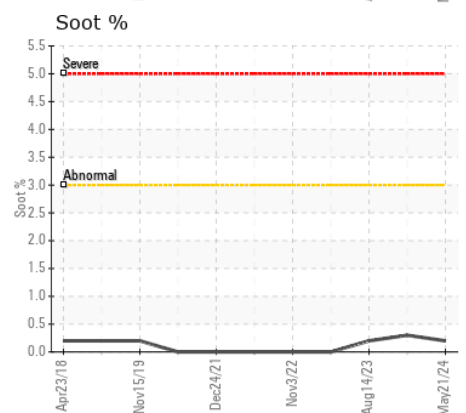
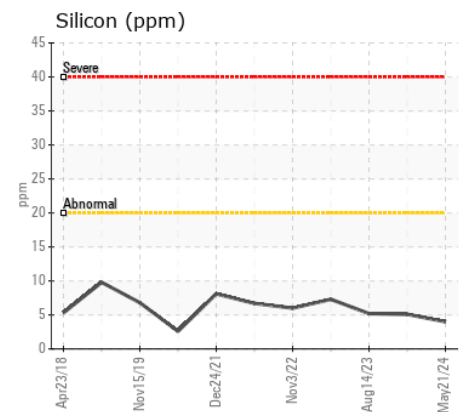
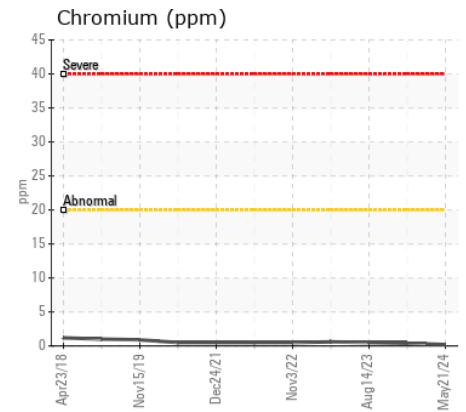
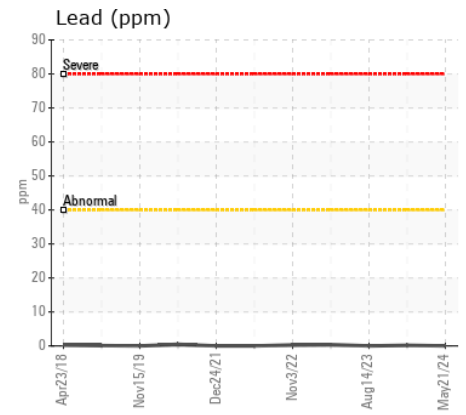
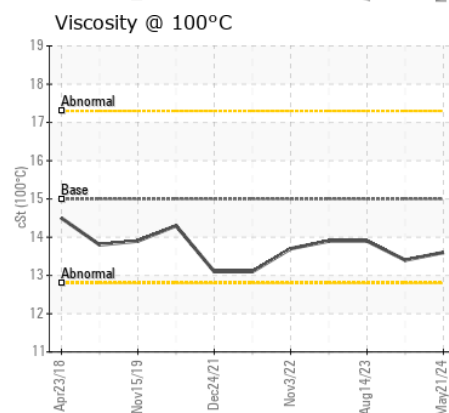
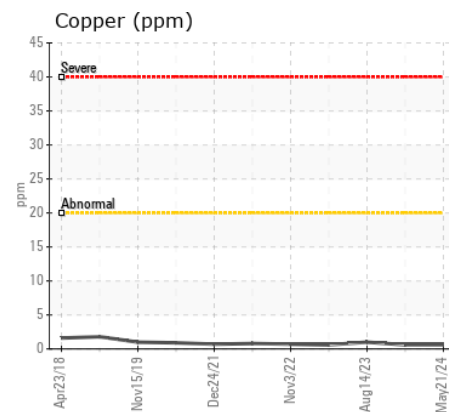
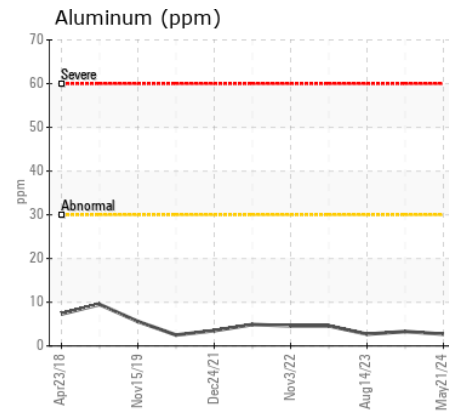
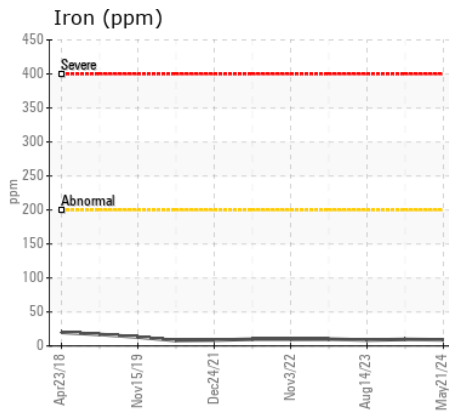
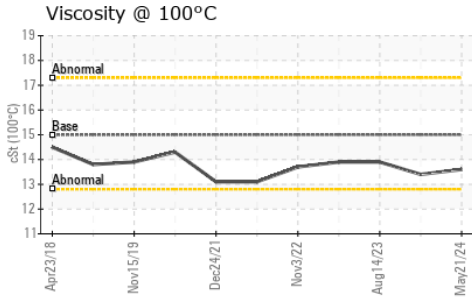
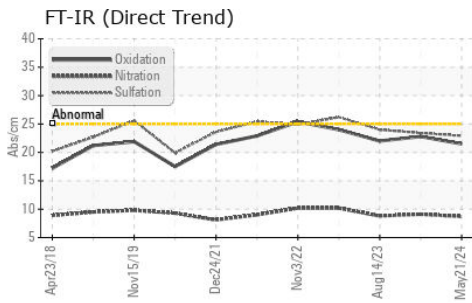
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	5	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.7	9.1	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	23.4	24.0
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)		2	2	3
Boron	ppm	ASTM D5185(m)	2.5	26	23	20
Barium	ppm	ASTM D5185(m)	0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0.7	43	44	45
Manganese	ppm	ASTM D5185(m)	0.0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	256	584	569	608
Calcium	ppm	ASTM D5185(m)	2057	1721	1692	1676
Phosphorus	ppm	ASTM D5185(m)	935	947	981	1029
Zinc	ppm	ASTM D5185(m)	1223	1132	1144	1151
Sulfur	ppm	ASTM D5185(m)	4079	2370	2563	2464
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.5	22.8	22.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.6	13.4	13.9



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL381910
Lab Number : 02637396
Unique Number : 5786558
Test Package : MOB 1
Received : 24 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Wes Davis

STRONGCO EQUIP (AB)
 6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Perry Doyle
 pdoyle@strongco.com
 T: (403)391-3520
 F: (403)346-3487

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.