



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L110G 8101
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC252920	PC252925	PC252919
Sample Date		Client Info		15 Sep 2023	31 Jul 2023	15 Jun 2023
Machine Age	hrs	Client Info		11966	11701	11463
Oil Age	hrs	Client Info		265	238	259
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	6	6	8
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	3	3	4
Lead	ppm	ASTM D5185(m)	>20	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>15	1	1	2
Tin	ppm	ASTM D5185(m)	>10	<1	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

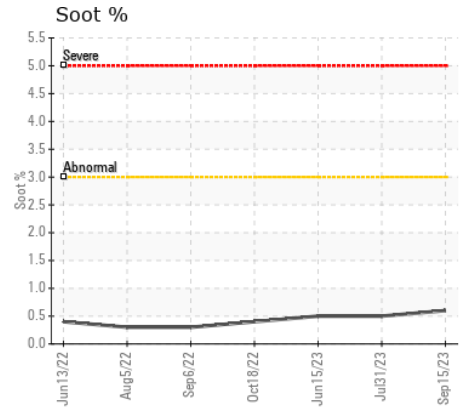
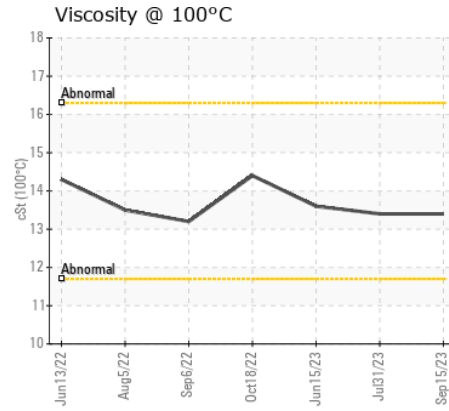
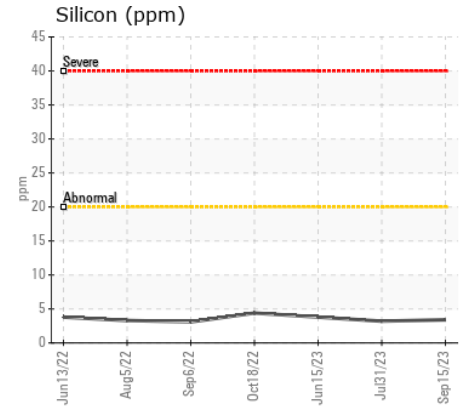
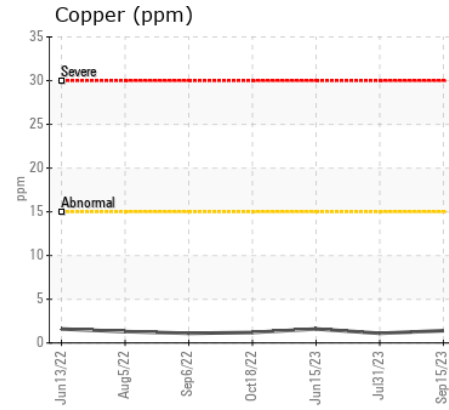
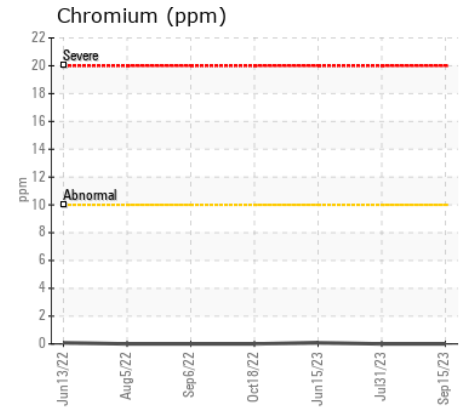
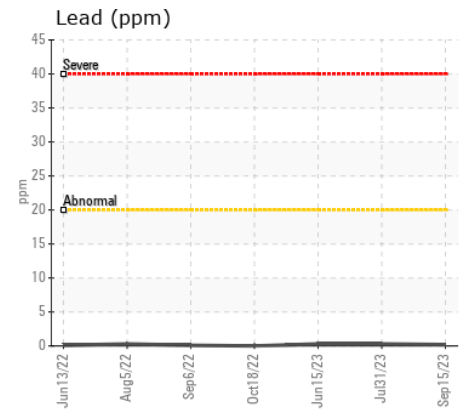
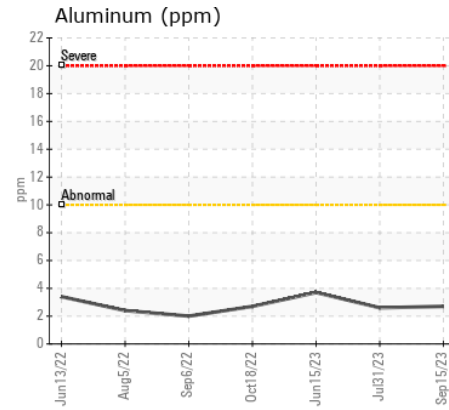
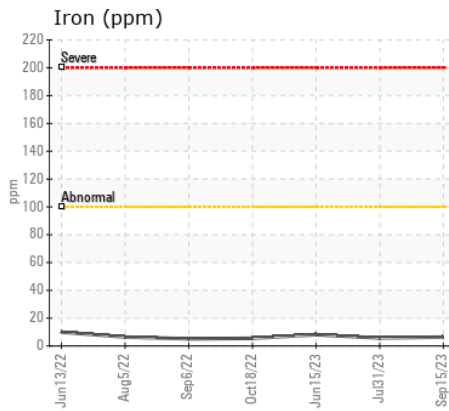
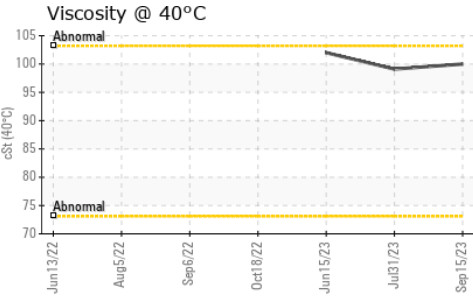
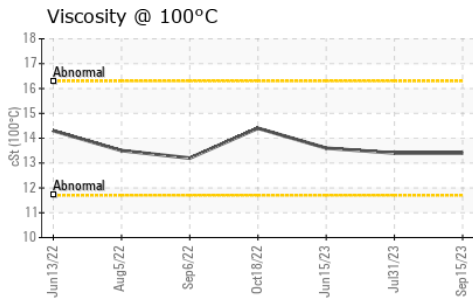
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	3	3	4
Potassium	ppm	ASTM D5185(m)	>20	1	<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	0.6	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.4	6.3	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	22.4	22.1
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)	>118	2	2	2
Boron	ppm	ASTM D5185(m)		37	41	52
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		40	40	46
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		505	495	498
Calcium	ppm	ASTM D5185(m)		1705	1693	1754
Phosphorus	ppm	ASTM D5185(m)		759	765	835
Zinc	ppm	ASTM D5185(m)		847	852	933
Sulfur	ppm	ASTM D5185(m)		2184	2219	2399
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.9	19.8	19.2
Visc @ 40°C	cSt	ASTM D7279(m)		100	99.1	102
Visc @ 100°C	cSt	ASTM D7279(m)		13.4	13.4	13.6
Viscosity Index (VI)	Scale	ASTM D2270*		133	134	133



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC252920
Lab Number : 02619167
Unique Number : 5736277
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 01 Mar 2024
Tested : 01 Mar 2024
Diagnosed : 01 Mar 2024 - Wes Davis

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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.