



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		PC223613	PC252920	PC252925
Sample Date		Client Info		12 Jan 2024	15 Sep 2023	31 Jul 2023
Machine Age	hrs	Client Info		12460	11966	11701
Oil Age	hrs	Client Info		250	265	238
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	---	---

WEAR

All component wear rates are normal.

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

CONTAMINATION

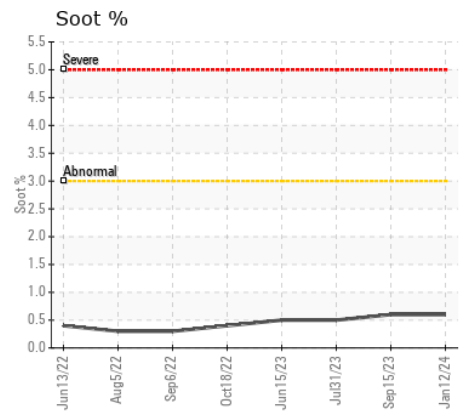
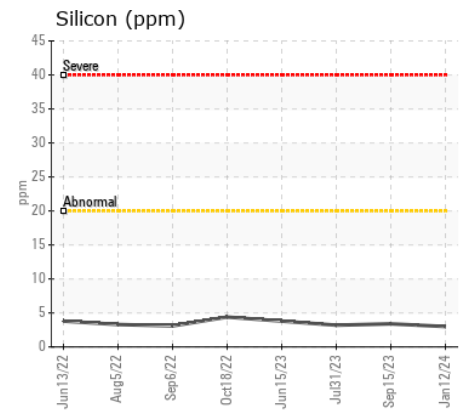
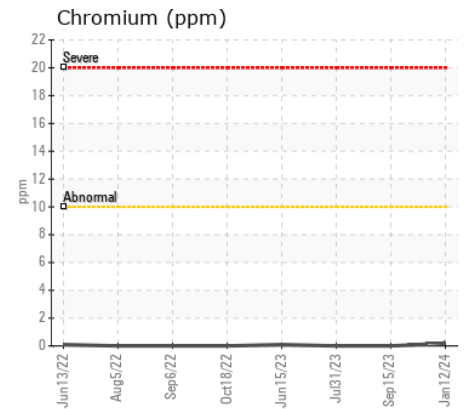
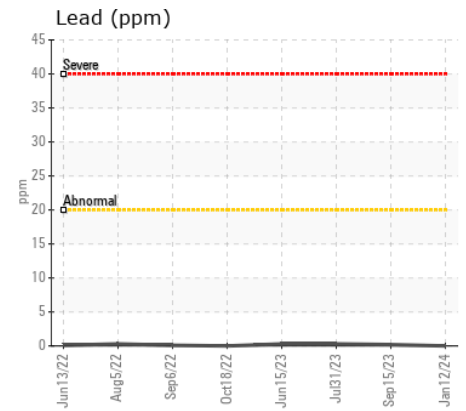
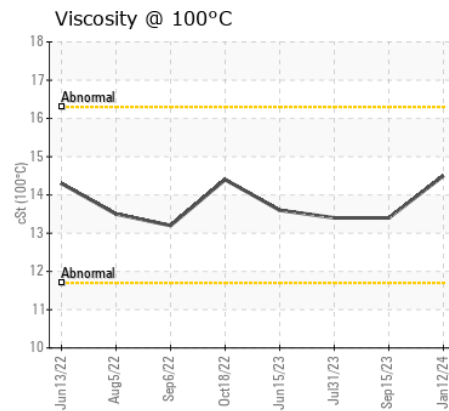
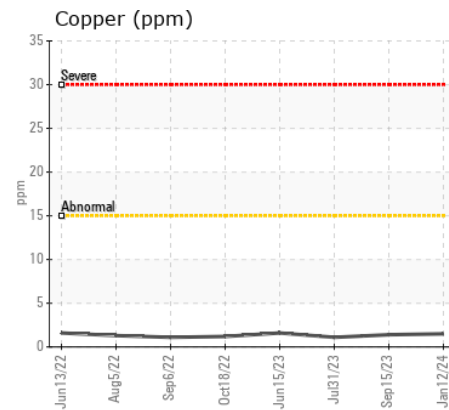
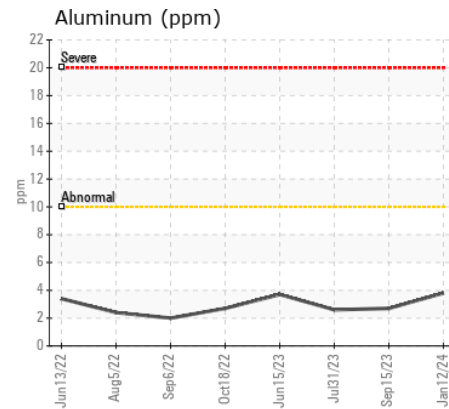
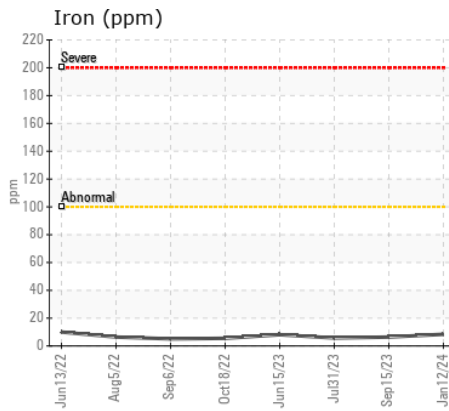
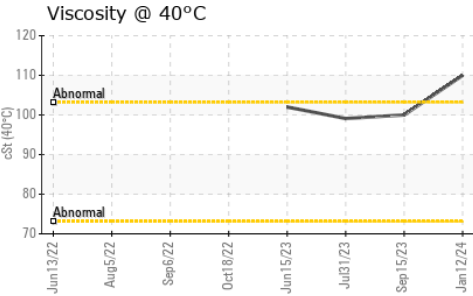
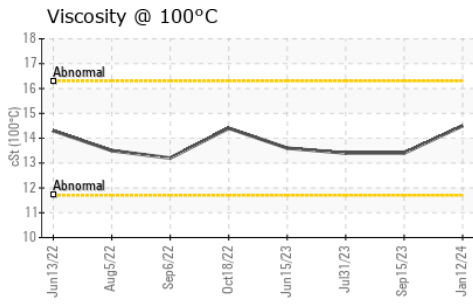
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	3	3	3
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	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.2	6.4	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	22.7	22.4
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	1	2	2
Boron	ppm	ASTM D5185(m)		80	37	41
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		57	40	40
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		419	505	495
Calcium	ppm	ASTM D5185(m)		1841	1705	1693
Phosphorus	ppm	ASTM D5185(m)		1037	759	765
Zinc	ppm	ASTM D5185(m)		1157	847	852
Sulfur	ppm	ASTM D5185(m)		2917	2184	2219
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.9	19.9	19.8
Visc @ 40°C	cSt	ASTM D7279(m)		110	100	99.1
Visc @ 100°C	cSt	ASTM D7279(m)		14.5	13.4	13.4
Viscosity Index (VI)	Scale	ASTM D2270*		134	133	134



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC223613
Lab Number : 02619165
Unique Number : 5736275
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.