



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



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		<b>PC252925</b>	PC252919	VCP224357
Sample Date		Client Info		<b>31 Jul 2023</b>	15 Jun 2023	18 Oct 2022
Machine Age	hrs	Client Info		<b>11701</b>	11463	11204
Oil Age	hrs	Client Info		<b>238</b>	259	245
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

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

**CONTAMINATION**

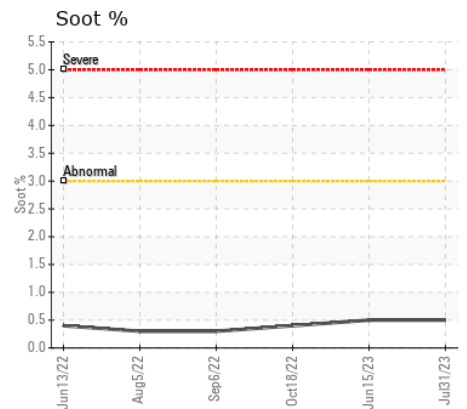
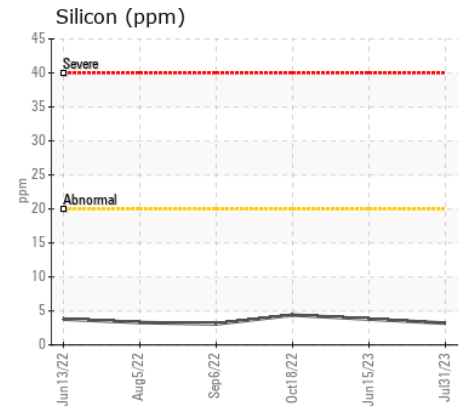
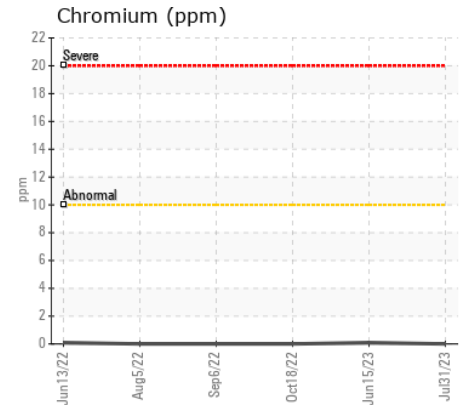
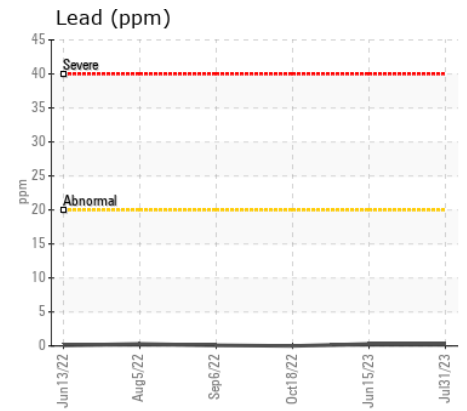
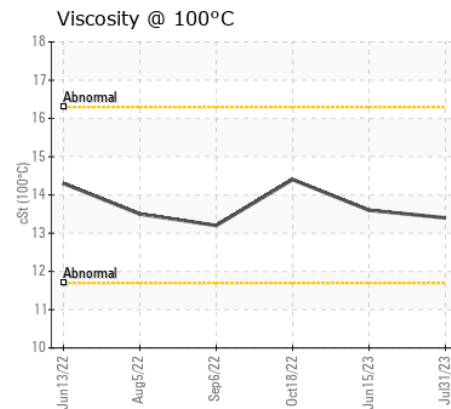
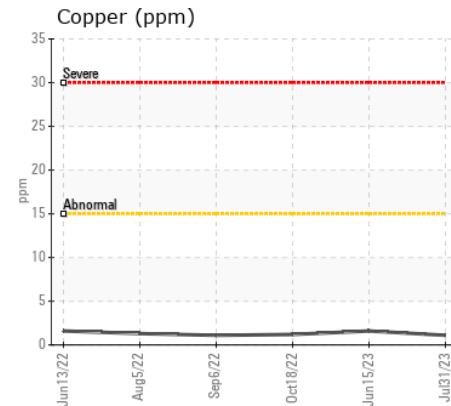
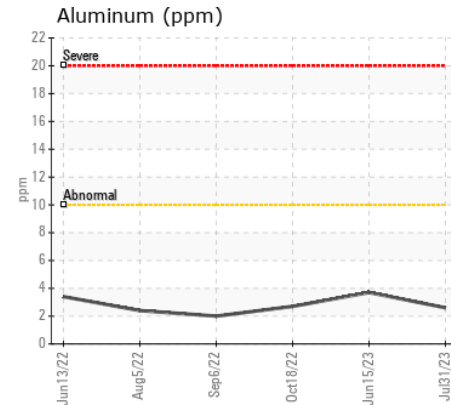
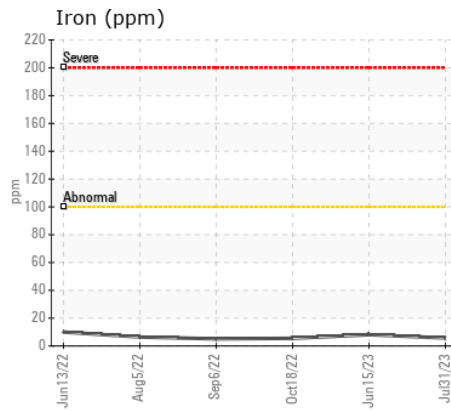
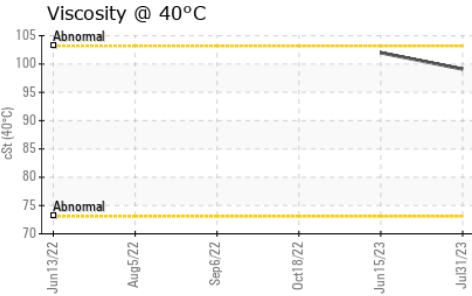
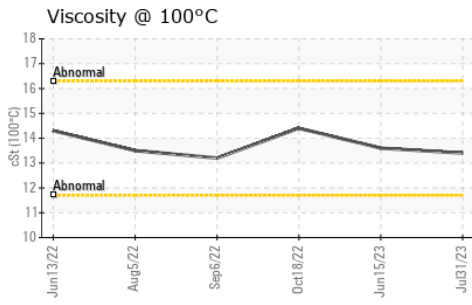
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.3</b>	6.7	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.4</b>	22.1	22.0
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>118	<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)		<b>41</b>	52	89
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>40</b>	46	56
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>495</b>	498	412
Calcium	ppm	ASTM D5185(m)		<b>1693</b>	1754	1815
Phosphorus	ppm	ASTM D5185(m)		<b>765</b>	835	1097
Zinc	ppm	ASTM D5185(m)		<b>852</b>	933	1145
Sulfur	ppm	ASTM D5185(m)		<b>2219</b>	2399	2805
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.8</b>	19.2	16.1
Visc @ 40°C	cSt	ASTM D7279(m)		<b>99.1</b>	102	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.4</b>	13.6	14.4
Viscosity Index (VI)	Scale	ASTM D2270*		<b>134</b>	133	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**Sample No.** : PC252925

**Lab Number** : 02619168

**Unique Number** : 5736278

**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**Received** : 01 Mar 2024

**Tested** : 01 Mar 2024

**Diagnosed** : 01 Mar 2024 - Wes Davis

**REDHEAD EQUIPMENT LTD.**

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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.