



# OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO L110H 10610**  
Component  
**Diesel Engine**  
Fluid  
**IRVING 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0849234</b>	WC0849330	WC0804964
Sample Date		Client Info		<b>28 Dec 2023</b>	31 Aug 2023	22 Apr 2023
Machine Age	hrs	Client Info		<b>28500</b>	28006	27500
Oil Age	hrs	Client Info		<b>500</b>	500	500
Filter Age	hrs	Client Info		<b>500</b>	500	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>9</b>	9	8
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>8</b>	8	8
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

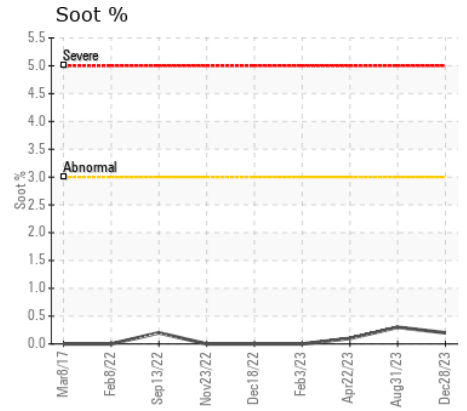
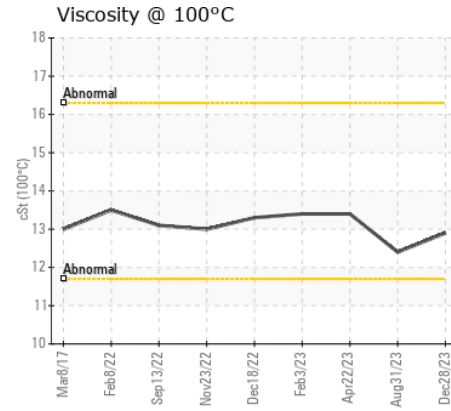
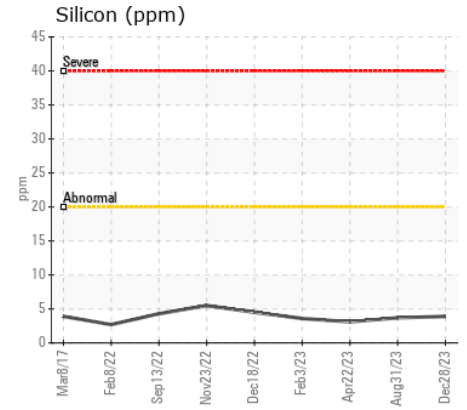
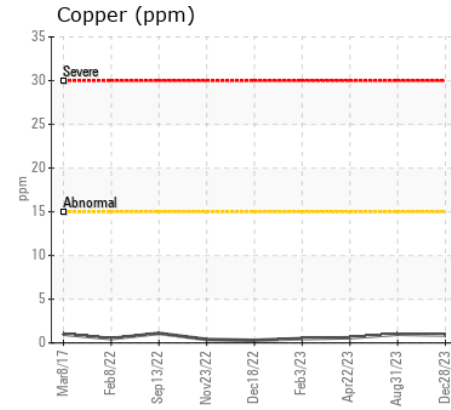
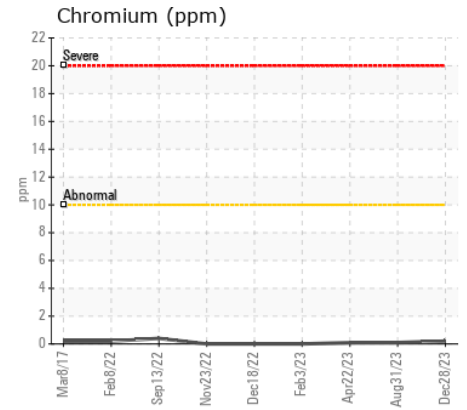
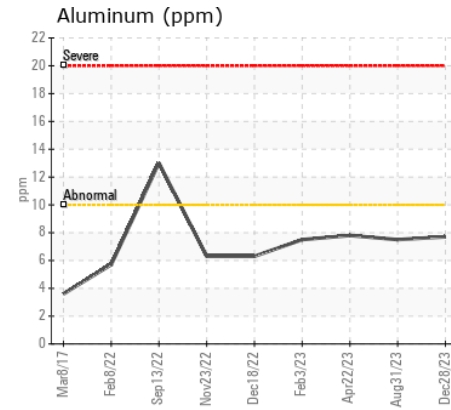
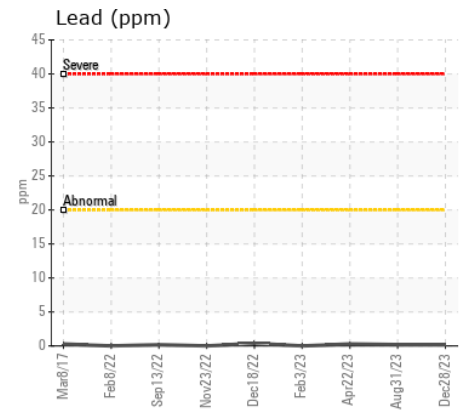
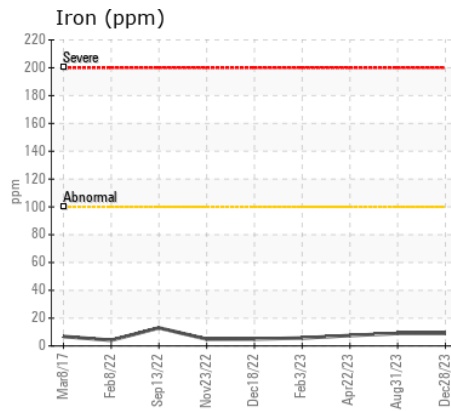
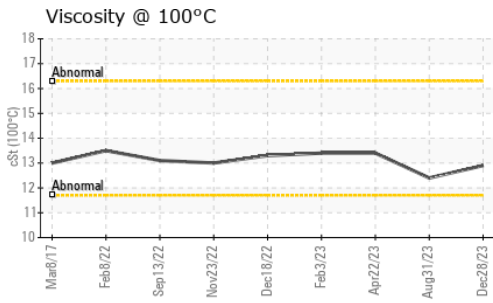
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
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>0.2</b>	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.0</b>	9.7	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	20.0	19.3
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)	>101	<b>&lt;1</b>	2	<1
Boron	ppm	ASTM D5185(m)		<b>40</b>	31	50
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>4</b>	4	5
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>31</b>	28	33
Calcium	ppm	ASTM D5185(m)		<b>1926</b>	2022	2224
Phosphorus	ppm	ASTM D5185(m)		<b>946</b>	956	1080
Zinc	ppm	ASTM D5185(m)		<b>1056</b>	1119	1175
Sulfur	ppm	ASTM D5185(m)		<b>3192</b>	3053	3367
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.0</b>	14.5	13.8
Visc @ 100°C	cSt	ASTM D7279(m)		<b>12.9</b>	12.4	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0849234 **Received** : 16 Jan 2024  
**Lab Number** : 02608909 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5709995 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.