



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**VOLVO L120H 633183**  
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>WC0940386</b>	WC0896385	WC0896398
Sample Date		Client Info		<b>13 Jun 2024</b>	06 May 2024	04 Feb 2024
Machine Age	hrs	Client Info		<b>7000</b>	6500	6000
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)	>200	<b>6</b>	6	7
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>4</b>	4	5
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

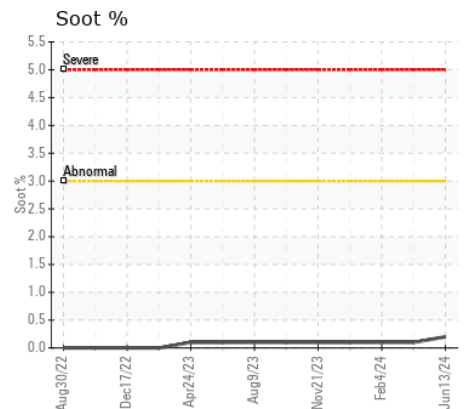
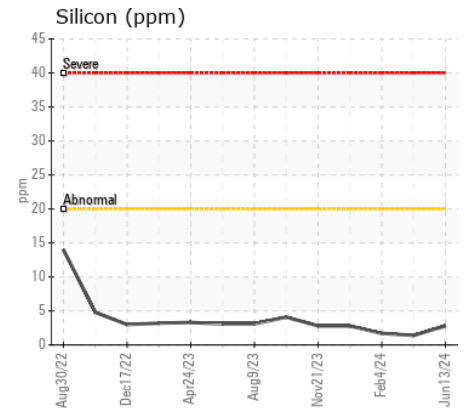
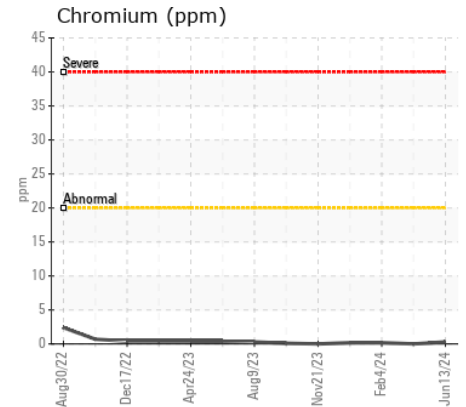
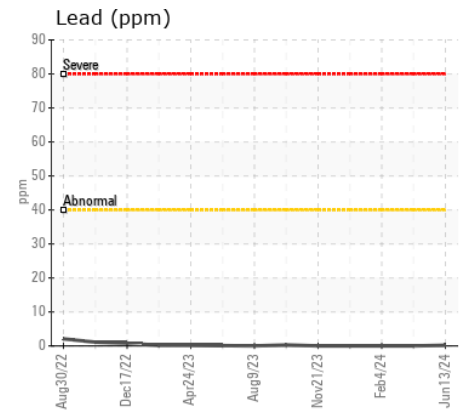
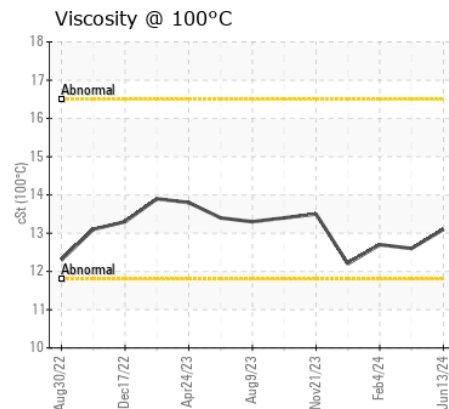
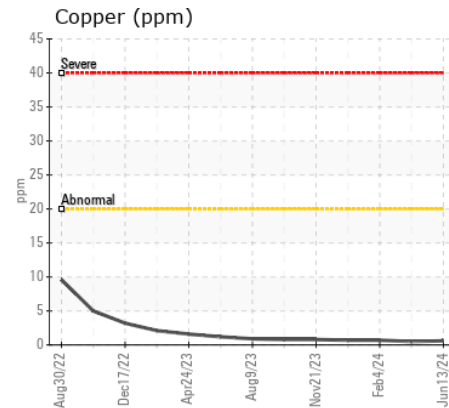
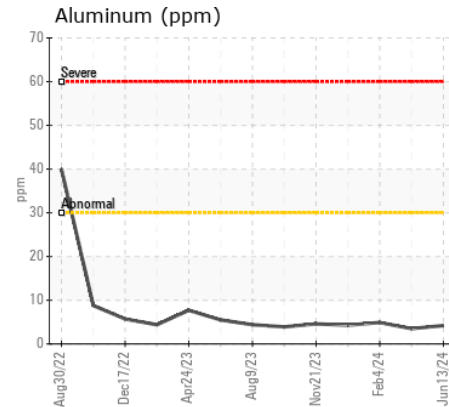
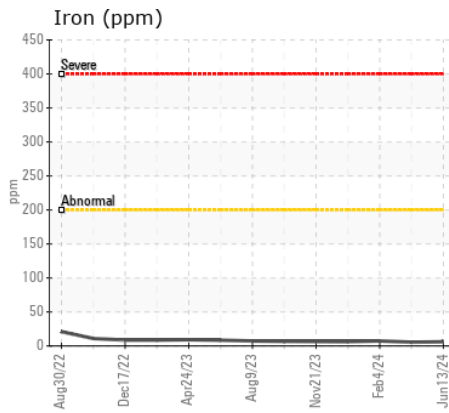
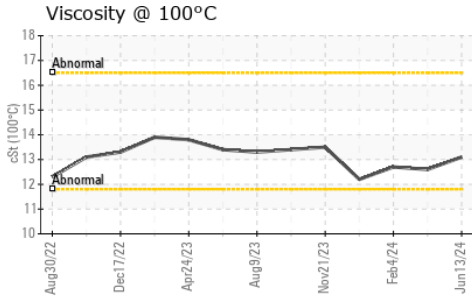
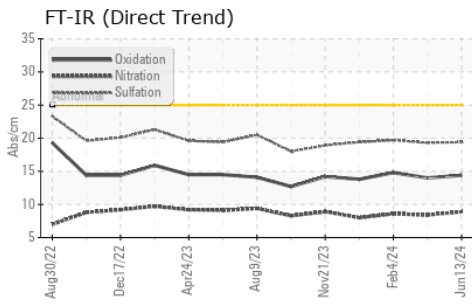
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	1	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.9</b>	8.4	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	19.3	19.7
Emulsified Water	scalar	Visual*	>0.2	<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>2</b>	<1	<1
Boron	ppm	ASTM D5185(m)		<b>34</b>	36	35
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>3</b>	3	4
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>27</b>	32	38
Calcium	ppm	ASTM D5185(m)		<b>1935</b>	1902	1933
Phosphorus	ppm	ASTM D5185(m)		<b>912</b>	881	894
Zinc	ppm	ASTM D5185(m)		<b>1042</b>	1029	1044
Sulfur	ppm	ASTM D5185(m)		<b>2933</b>	2848	2892
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.4</b>	14.0	14.8
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.1</b>	12.6	12.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0940386 **Received** : 19 Jun 2024  
**Lab Number** : 02642828 **Tested** : 19 Jun 2024  
**Unique Number** : 5800367 **Diagnosed** : 19 Jun 2024 - 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.