



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH50M 084832-1203**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA SUPREME 5W30 (32 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0281234</b>	LH0259870	LH0155345
Sample Date		Client Info		<b>23 Apr 2024</b>	02 May 2023	29 Nov 2019
Machine Age	hrs	Client Info		<b>19219</b>	18000	12058
Oil Age	hrs	Client Info		<b>0</b>	0	0
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	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>19</b>	4	10
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>6</b>	1	3
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>125	<b>6</b>	2	2
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

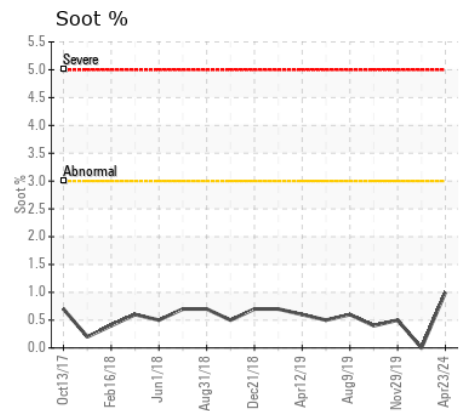
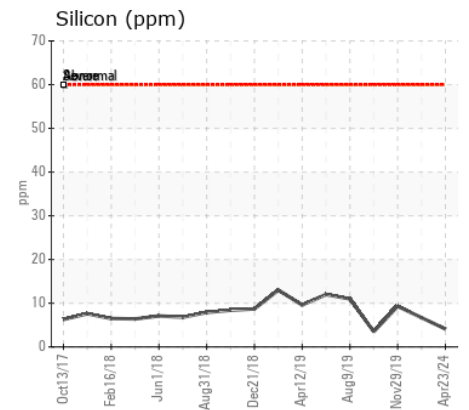
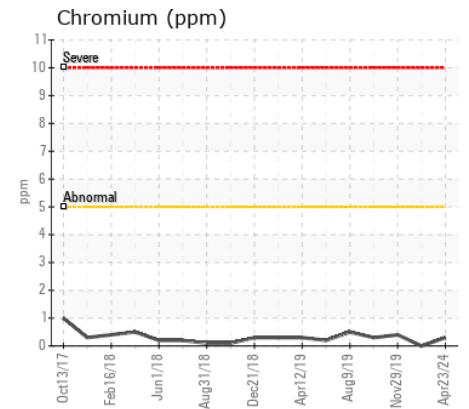
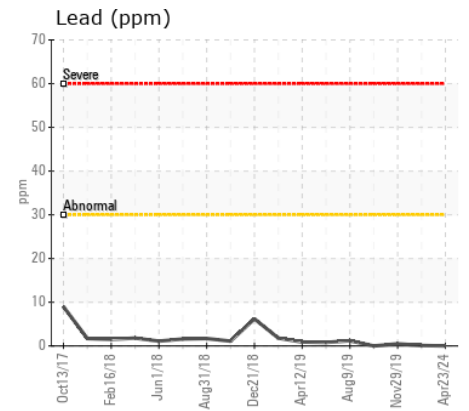
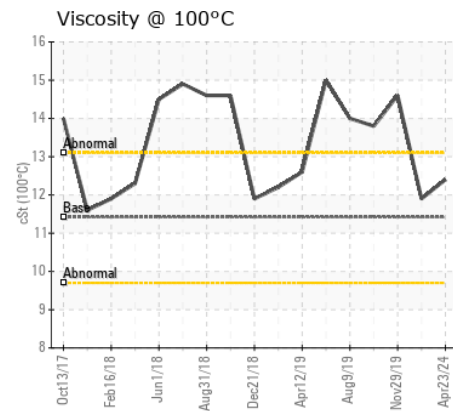
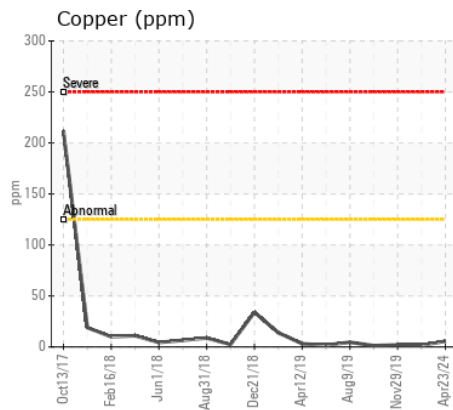
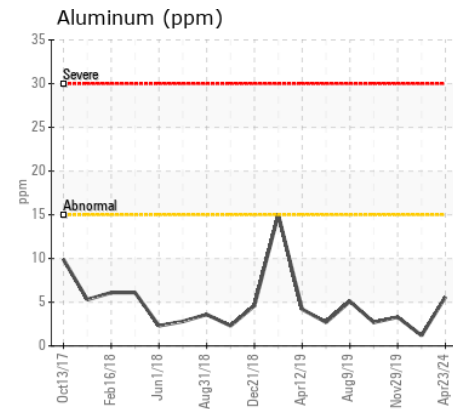
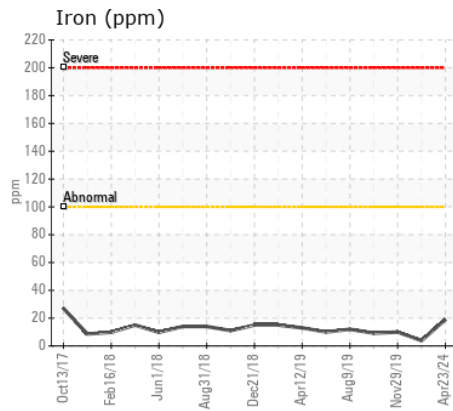
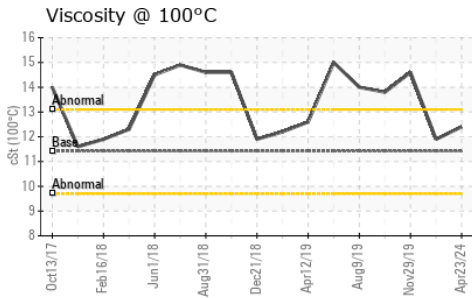
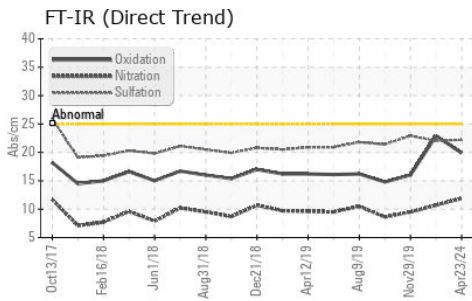
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	<b>4</b>	7	9
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>5	<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>1</b>	0	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.9</b>	10.7	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.2</b>	22.0	22.9
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)		<b>5</b>	4	<1
Boron	ppm	ASTM D5185(m)	186	<b>25</b>	30	2
Barium	ppm	ASTM D5185(m)	<1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	79	<b>61</b>	61	60
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	578	<b>1161</b>	1098	994
Calcium	ppm	ASTM D5185(m)	1002	<b>837</b>	869	1207
Phosphorus	ppm	ASTM D5185(m)	745	<b>1049</b>	1061	1091
Zinc	ppm	ASTM D5185(m)	837	<b>1232</b>	1183	1268
Sulfur	ppm	ASTM D5185(m)	2502	<b>2742</b>	2695	2766
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.9</b>	22.9	16.0
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	<b>12.4</b>	11.9	14.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0281234  
**Lab Number** : 02634931  
**Unique Number** : 5776084  
**Test Package** : MOB 1

**Eacom Timber Corporation**  
 100 Old Nairn Centre Road  
 Nairn Centre, ON  
 CA P0M 2L0  
 Contact: Service Manager

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.

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