



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(346464)**  
Machine Id  
**LIEBHERR LH30M 124535-1253**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA SUPREME 5W30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0286582</b>	LH0269656	LH0234541
Sample Date		Client Info		<b>16 Mar 2024</b>	14 Jan 2024	12 Jun 2022
Machine Age	hrs	Client Info		<b>6121</b>	5749	2437
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	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>66	<b>2</b>	4	3
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>8	<b>&lt;1</b>	2	1
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>74	<b>&lt;1</b>	1	3
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

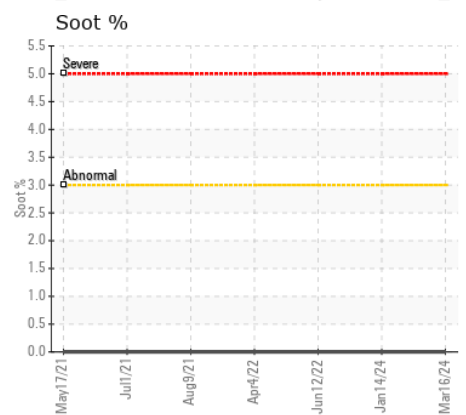
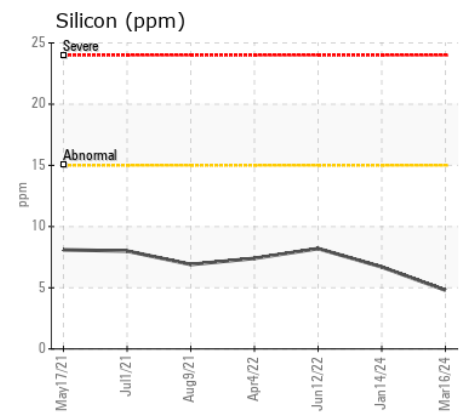
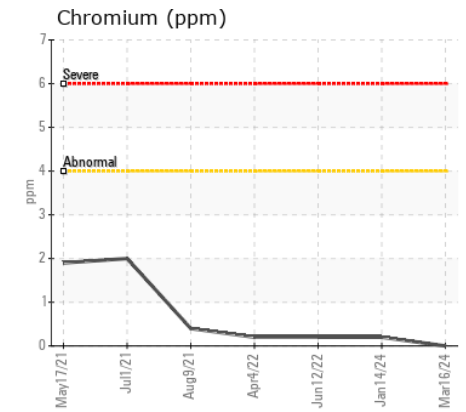
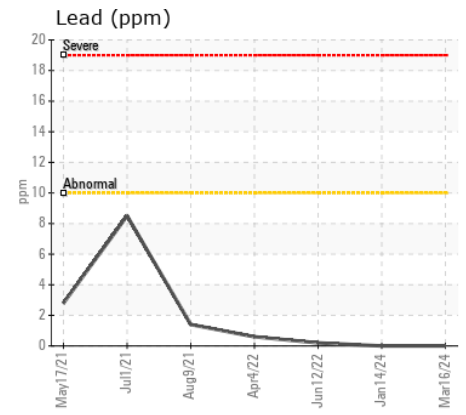
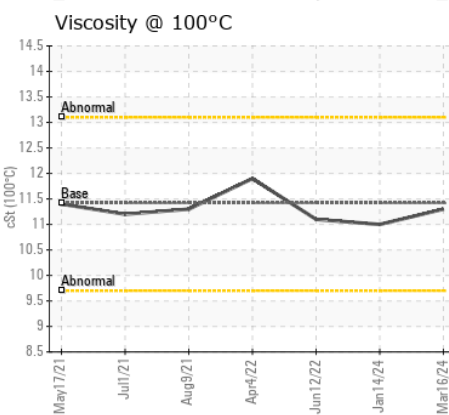
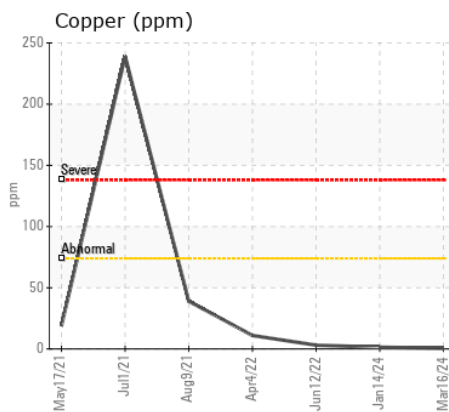
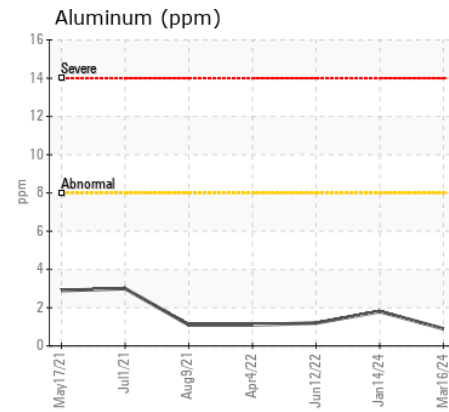
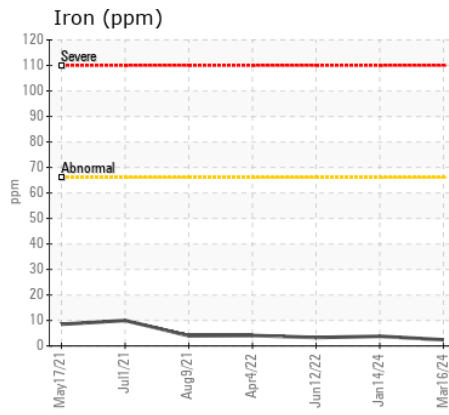
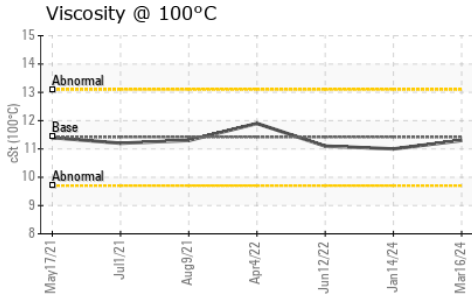
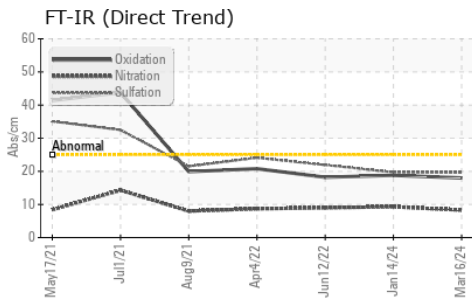
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>5</b>	7	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	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>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.3</b>	9.3	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.6</b>	19.7	21.9
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>4</b>	4	4
Boron	ppm	ASTM D5185(m)	186	<b>46</b>	40	39
Barium	ppm	ASTM D5185(m)	<1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	79	<b>58</b>	58	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	578	<b>1107</b>	1084	1147
Calcium	ppm	ASTM D5185(m)	1002	<b>807</b>	818	858
Phosphorus	ppm	ASTM D5185(m)	745	<b>1005</b>	1024	1093
Zinc	ppm	ASTM D5185(m)	837	<b>1180</b>	1191	1265
Sulfur	ppm	ASTM D5185(m)	2502	<b>2771</b>	2973	2929
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.0</b>	18.8	18.2
Visc @ 100°C	cSt	ASTM D7279(m)	11.42	<b>11.3</b>	11.0	11.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0286582  
**Lab Number** : 02626906  
**Unique Number** : 5760038  
**Test Package** : MOB 1  
**Received** : 05 Apr 2024  
**Tested** : 05 Apr 2024  
**Diagnosed** : 05 Apr 2024 - Wes Davis

**JOHN ROSS & SONS LTD.**  
 85 GLASSY AVENUE  
 TRURO, NS  
 CA B2N 6Z1  
 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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F: