



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(366970)**  
Machine Id

**LIEBHERR L556 066890-1826**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0281279</b>	LH0265575	---
Sample Date		Client Info		<b>09 May 2024</b>	03 Nov 2023	---
Machine Age	hrs	Client Info		<b>12115</b>	9032	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>8</b>	6	---
Chromium	ppm	ASTM D5185(m)	>10	<b>5</b>	3	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>10	<b>5</b>	6	---
Copper	ppm	ASTM D5185(m)	>75	<b>2</b>	2	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

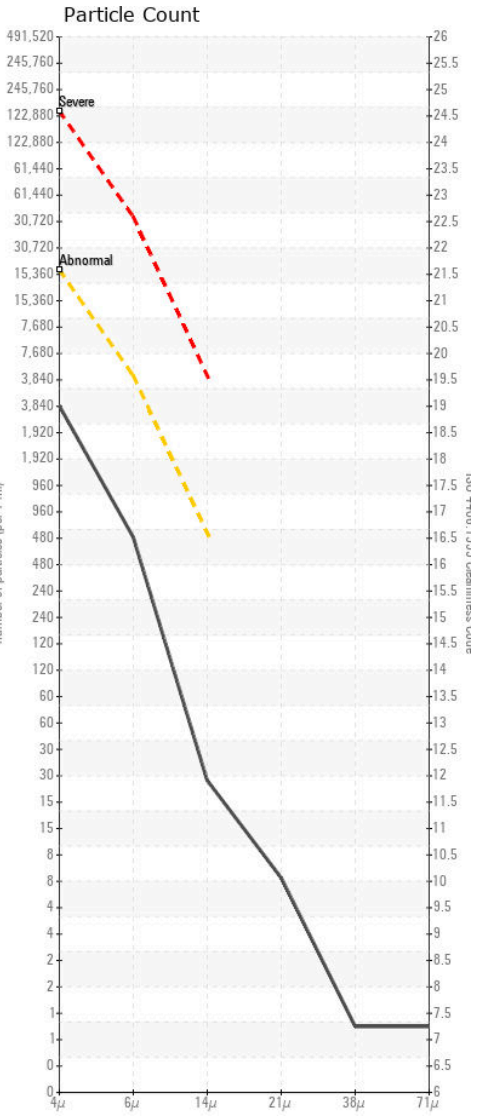
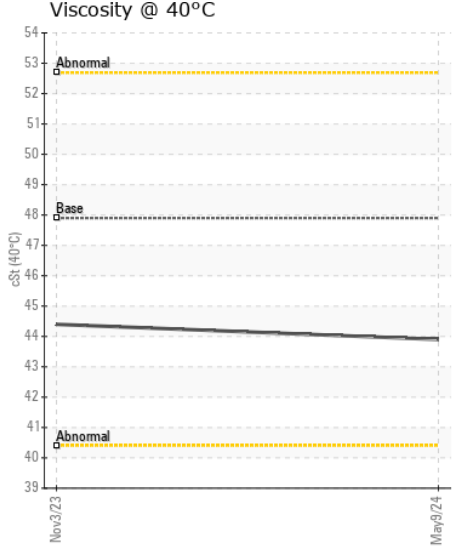
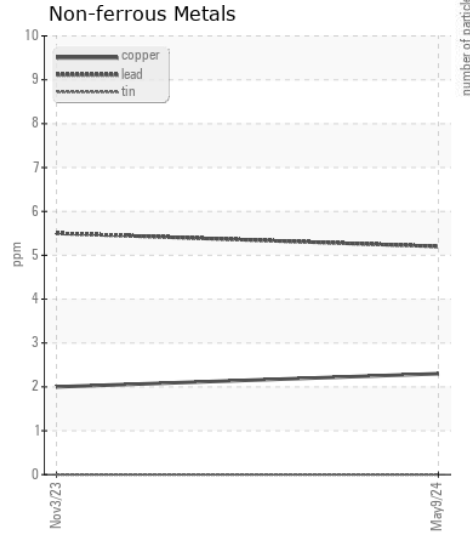
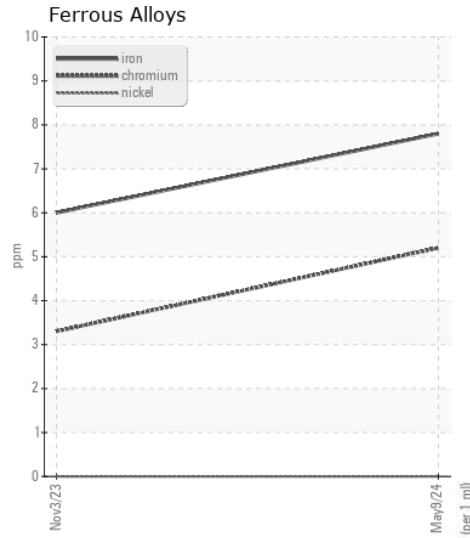
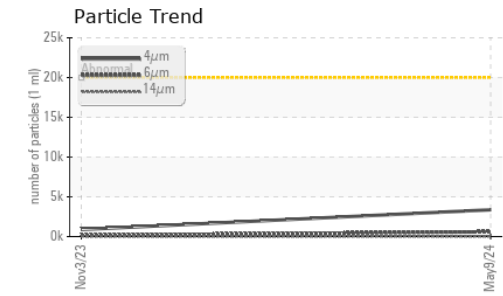
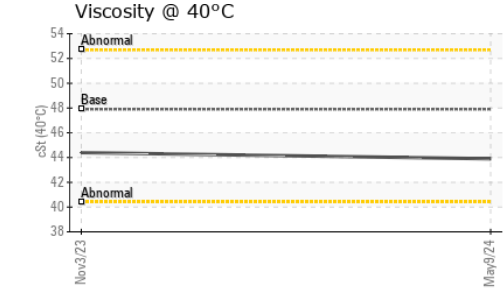
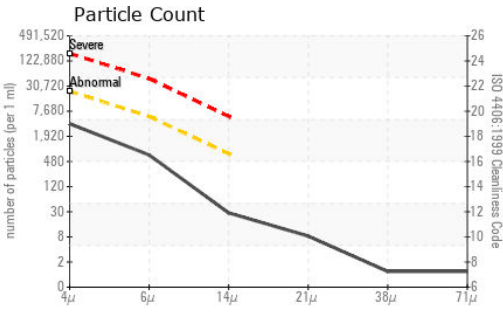
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>20000	<b>3371</b>	885	---
Particles >6µm		ASTM D7647	>5000	<b>603</b>	148	---
Particles >14µm		ASTM D7647	>640	<b>25</b>	9	---
Particles >21µm		ASTM D7647	>160	<b>7</b>	3	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	---
Particles >71µm		ASTM D7647	>10	<b>1</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/16/12</b>	17/14/10	---
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	---
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)	0	<b>3</b>	3	---
Calcium	ppm	ASTM D5185(m)	100	<b>795</b>	793	---
Phosphorus	ppm	ASTM D5185(m)	670	<b>650</b>	642	---
Zinc	ppm	ASTM D5185(m)	850	<b>766</b>	762	---
Sulfur	ppm	ASTM D5185(m)	1600	<b>3057</b>	3081	---
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	<b>43.9</b>	44.4	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0281279 **Received** : 29 May 2024  
**Lab Number** : 02638522 **Tested** : 31 May 2024  
**Unique Number** : 5787684 **Diagnosed** : 31 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

**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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F: