



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**LIEBHERR PR776 24302**  
Component  
**Splitter Box**  
Fluid  
**PETRO CANADA HYDREX AW 46 (--- GAL)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0238158</b>	LH0265122	---
Sample Date		Client Info		<b>06 Apr 2024</b>	18 Jan 2024	---
Machine Age	hrs	Client Info		<b>9464</b>	6158	---
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>	N/A	---
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)	>100	<b>40</b>	23	---
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	---
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185(m)	>20	<b>5</b>	4	---
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>LIGHT</b>	NONE	---

### CONTAMINATION

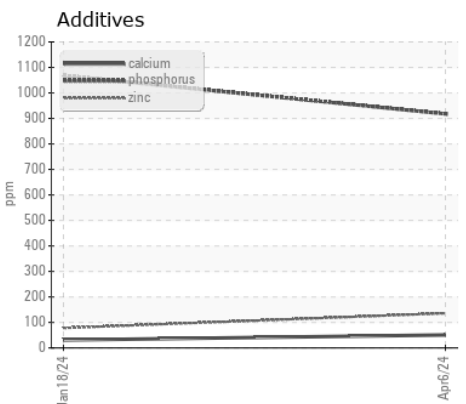
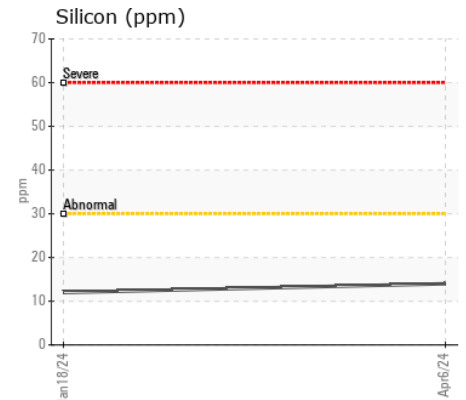
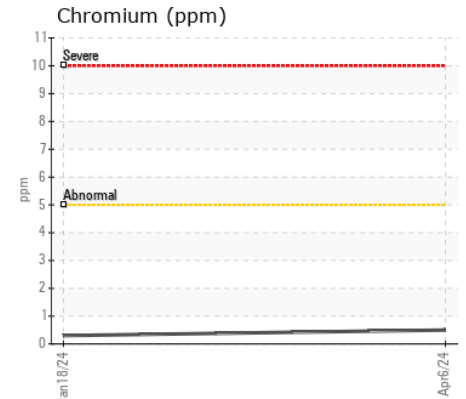
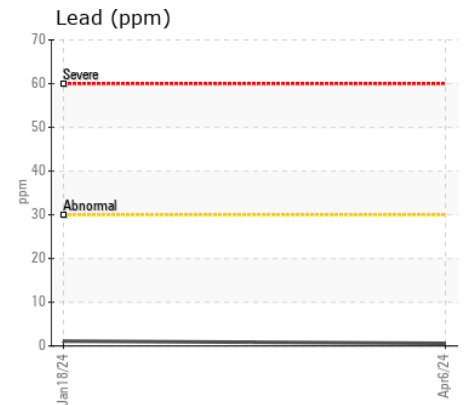
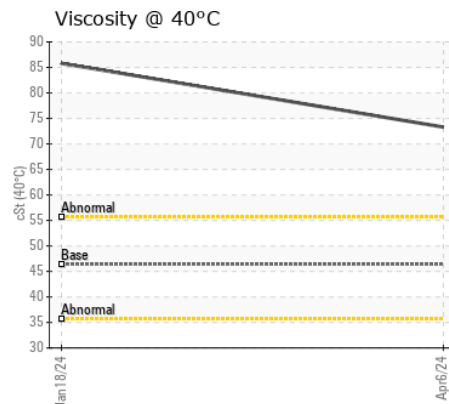
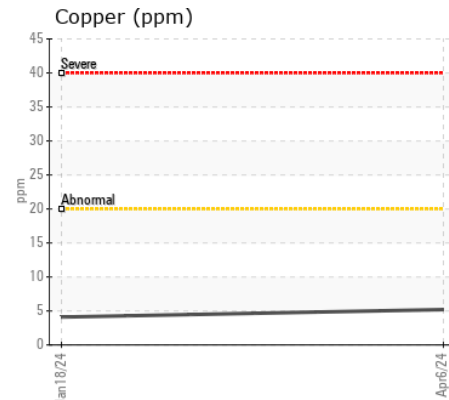
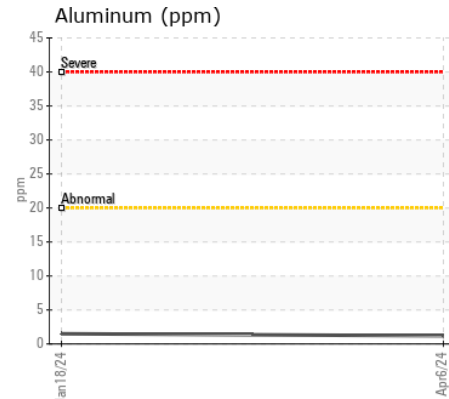
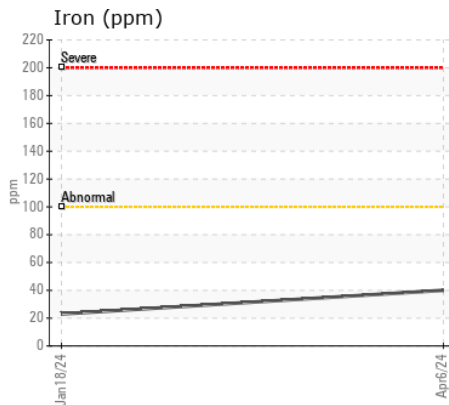
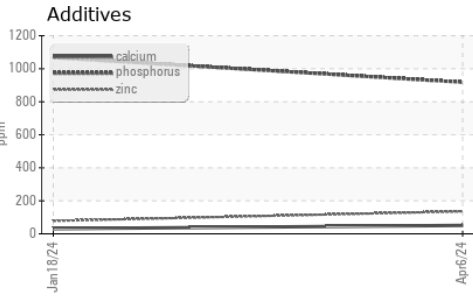
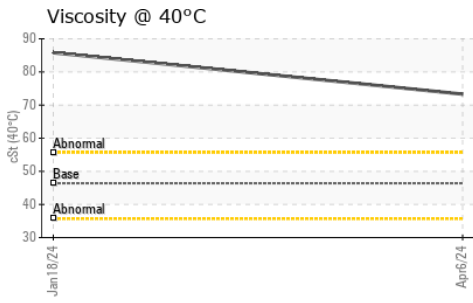
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>14</b>	12	---
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	4	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</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

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>25	<b>3</b>	2	---
Boron	ppm	ASTM D5185(m)	0	<b>82</b>	108	---
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)	0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185(m)	0	<b>2</b>	1	---
Calcium	ppm	ASTM D5185(m)	50	<b>51</b>	31	---
Phosphorus	ppm	ASTM D5185(m)	330	<b>918</b>	1068	---
Zinc	ppm	ASTM D5185(m)	430	<b>136</b>	78	---
Sulfur	ppm	ASTM D5185(m)	760	<b>16878</b>	20317	---
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>73.3</b>	85.8	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

**Sample No.** : LH0238158

**Lab Number** : 02642380

**Unique Number** : 5799919

**Test Package** : MOB 1

**Received** : 17 Jun 2024

**Tested** : 18 Jun 2024

**Diagnosed** : 18 Jun 2024 - Wes Davis

**ARGONAUT GOLD**

DUBREUILVILLE MINE

DUBREUILVILLE, ON

CA

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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