



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id  
**LIEBHERR HS8100 184920**

Component  
**Right Travel**

Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289633	---	---
Sample Date		Client Info		17 May 2024	---	---
Machine Age	hrs	Client Info		16088	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	239	---	---
Chromium	ppm	ASTM D5185(m)	>20	2	---	---
Nickel	ppm	ASTM D5185(m)	>5	2	---	---
Titanium	ppm	ASTM D5185(m)		3	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>100	62	---	---
Lead	ppm	ASTM D5185(m)	>10	<1	---	---
Copper	ppm	ASTM D5185(m)	>60	29	---	---
Tin	ppm	ASTM D5185(m)	>5	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

### CONTAMINATION

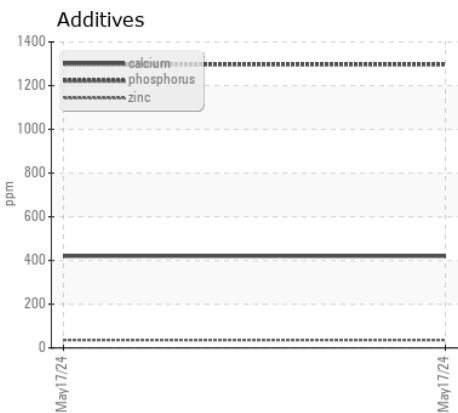
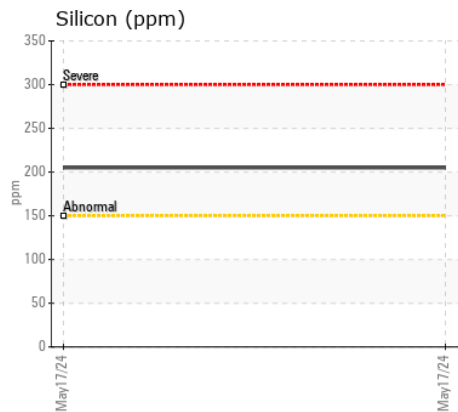
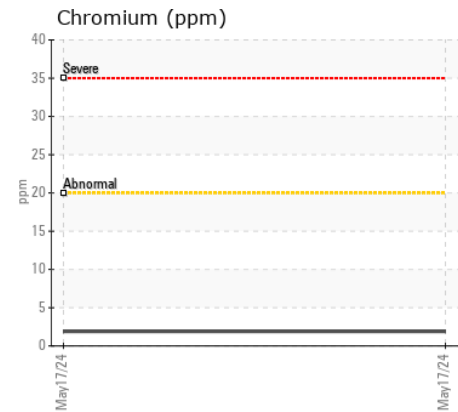
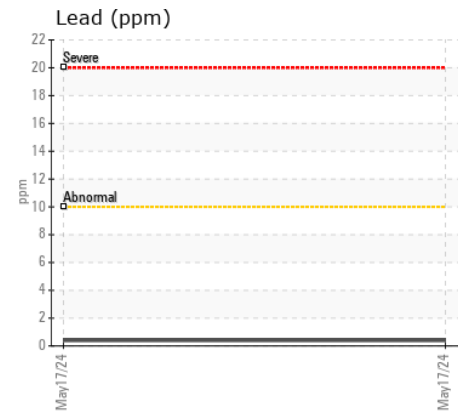
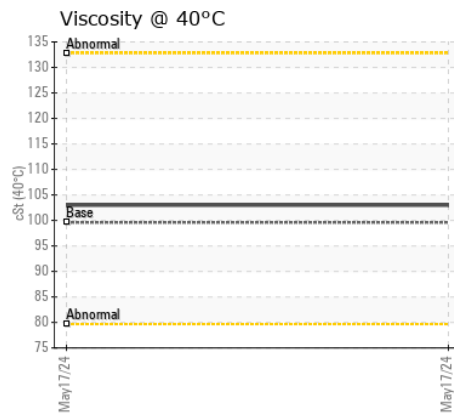
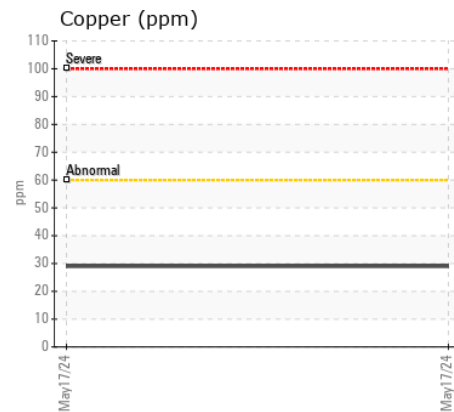
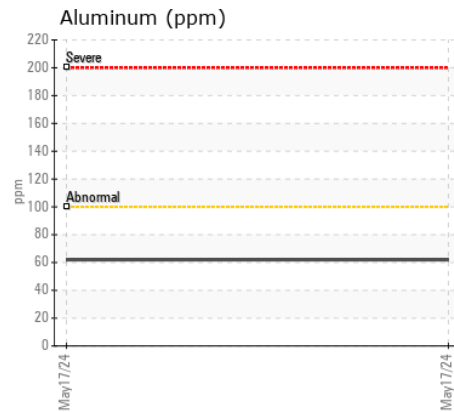
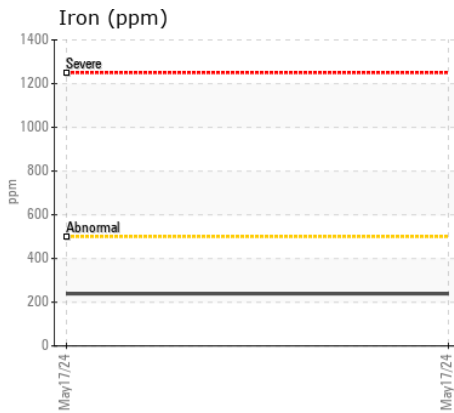
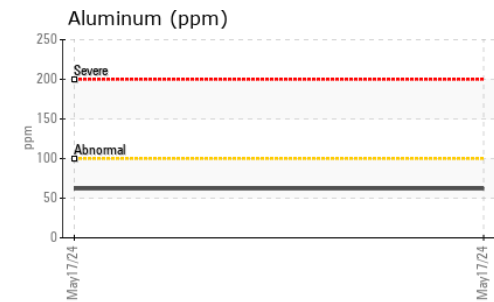
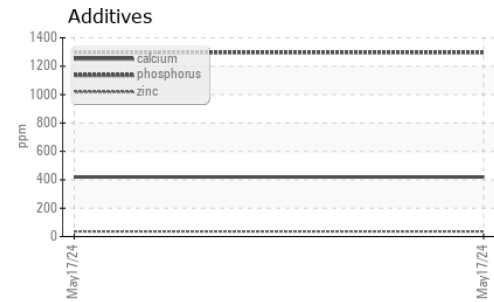
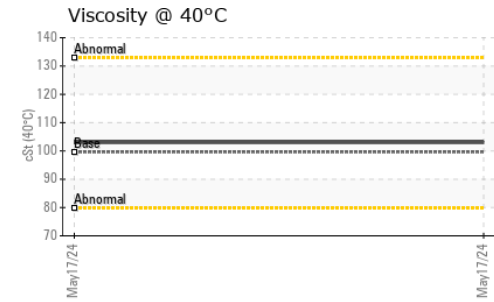
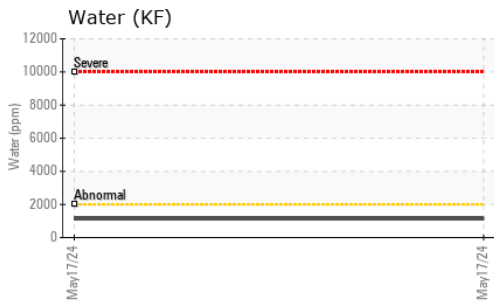
The water content is negligible.

Silicon	ppm	ASTM D5185(m)	>150	205	---	---
Potassium	ppm	ASTM D5185(m)	>20	22	---	---
Water	%	ASTM D6304*	>0.2	0.113	---	---
ppm Water	ppm	ASTM D6304*	>2000	1132	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	MILKY	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

### FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.

Sodium	ppm	ASTM D5185(m)		10	---	---
Boron	ppm	ASTM D5185(m)	328	238	---	---
Barium	ppm	ASTM D5185(m)	1	<1	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		3	---	---
Magnesium	ppm	ASTM D5185(m)	1	70	---	---
Calcium	ppm	ASTM D5185(m)	7	420	---	---
Phosphorus	ppm	ASTM D5185(m)	1145	1297	---	---
Zinc	ppm	ASTM D5185(m)	3	36	---	---
Sulfur	ppm	ASTM D5185(m)	17909	20728	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	103	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0289633 **Received** : 29 May 2024  
**Lab Number** : 02638610 **Tested** : 31 May 2024  
**Unique Number** : 5787772 **Diagnosed** : 31 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KF )

**HIGGS & HIGGS**  
 RR # 4  
 ST THOMAS, ON  
 CA N5P 3S8  
 Contact: Bernie Higgs

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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