



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR HS8100 184920

Component
Left 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		LH0289634	---	---
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	246	---	---
Chromium	ppm	ASTM D5185(m)	>20	2	---	---
Nickel	ppm	ASTM D5185(m)	>5	3	---	---
Titanium	ppm	ASTM D5185(m)		4	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>100	75	---	---
Lead	ppm	ASTM D5185(m)	>10	<1	---	---
Copper	ppm	ASTM D5185(m)	>60	24	---	---
Tin	ppm	ASTM D5185(m)	>5	1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

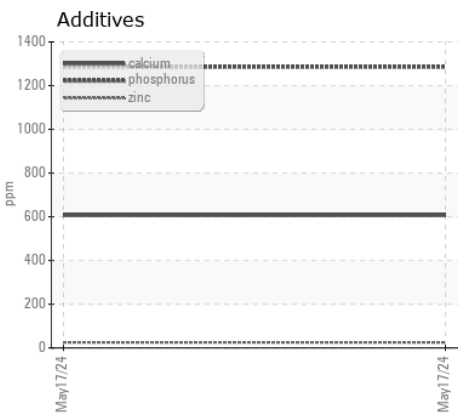
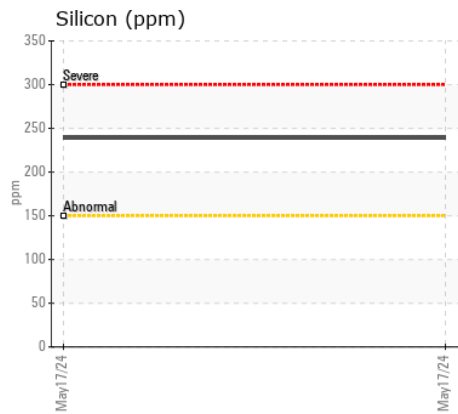
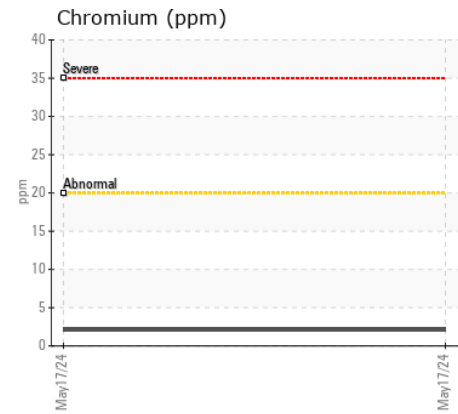
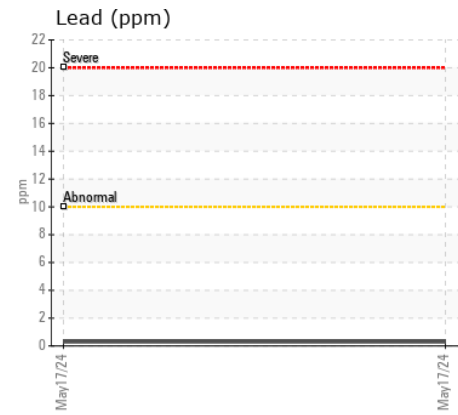
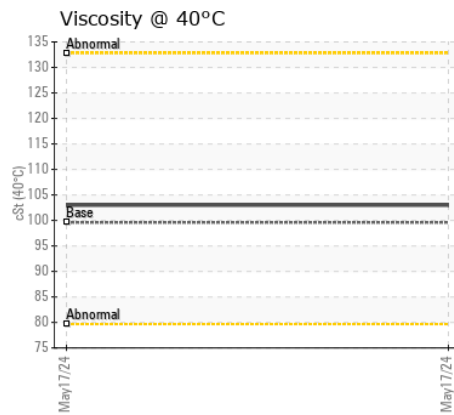
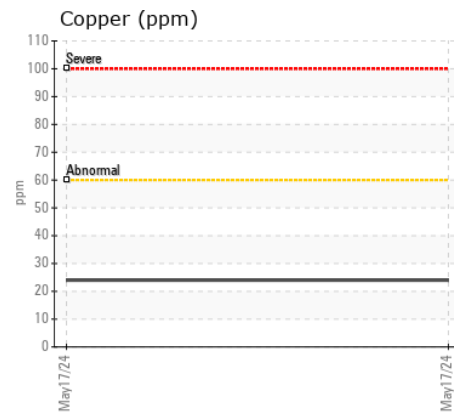
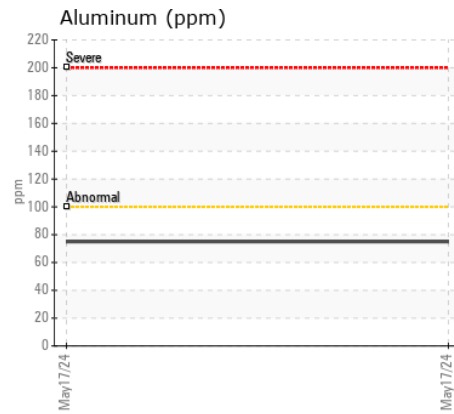
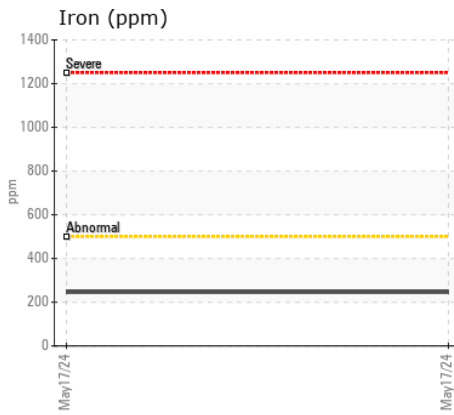
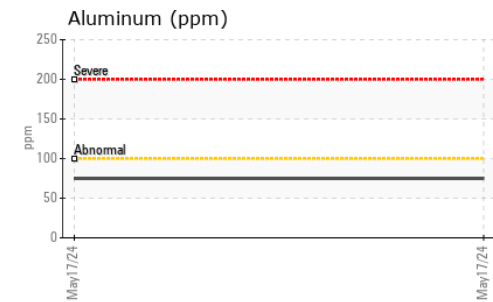
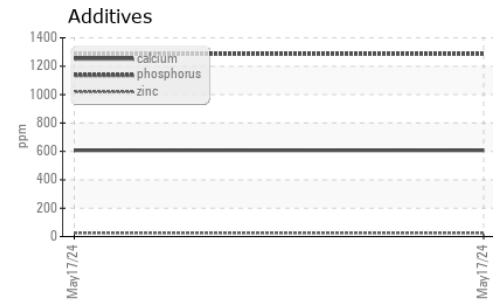
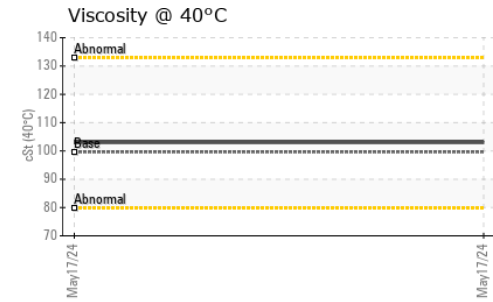
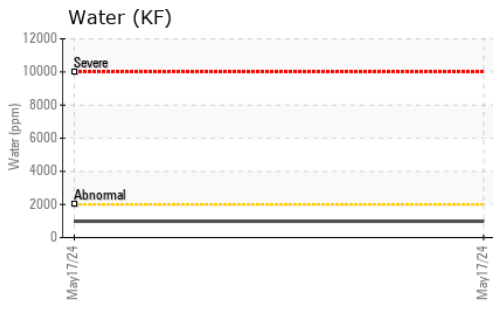
The water content is negligible.

Silicon	ppm	ASTM D5185(m)	>150	239	---	---
Potassium	ppm	ASTM D5185(m)	>20	30	---	---
Water	%	ASTM D6304*	>0.2	0.098	---	---
ppm Water	ppm	ASTM D6304*	>2000	983	---	---
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)		15	---	---
Boron	ppm	ASTM D5185(m)	328	274	---	---
Barium	ppm	ASTM D5185(m)	1	<1	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		4	---	---
Magnesium	ppm	ASTM D5185(m)	1	61	---	---
Calcium	ppm	ASTM D5185(m)	7	607	---	---
Phosphorus	ppm	ASTM D5185(m)	1145	1286	---	---
Zinc	ppm	ASTM D5185(m)	3	25	---	---
Sulfur	ppm	ASTM D5185(m)	17909	20516	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	103	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289634
Lab Number : 02638612
Unique Number : 5787774
Test Package : MOB 1 (Additional Tests: KF)

Received : 29 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Kevin Marson

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.

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

T: (519)631-4095
 F: (519)631-2745