



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH40M 146308-1215

Component
Front Left Wheel Hub

Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (--- 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		LH0281093	---	---
Sample Date		Client Info		03 Jan 2024	---	---
Machine Age	hrs	Client Info		511	---	---
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				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*	>500	8	---	---
Iron	ppm	ASTM D5185(m)	>650	687	---	---
Chromium	ppm	ASTM D5185(m)	>4	2	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)	>4	0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	3	---	---
Lead	ppm	ASTM D5185(m)	>4	2	---	---
Copper	ppm	ASTM D5185(m)	>60	56	---	---
Tin	ppm	ASTM D5185(m)	>4	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	LIGHT	---	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---	---

CONTAMINATION

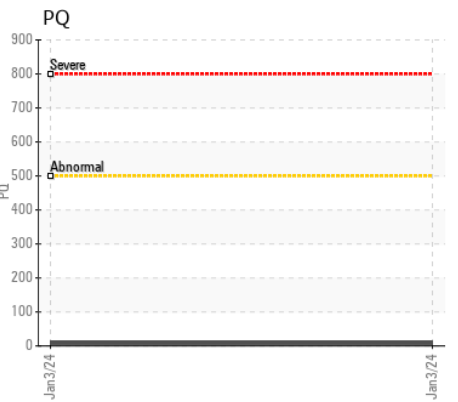
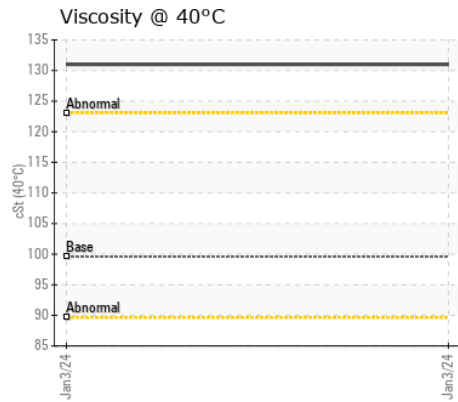
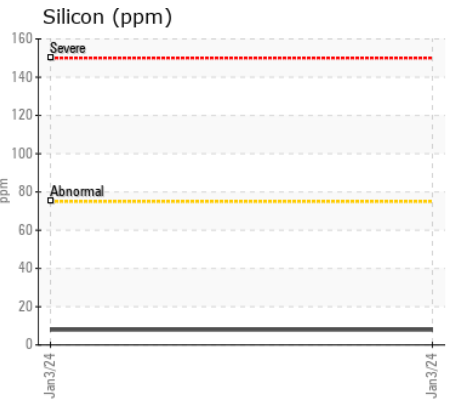
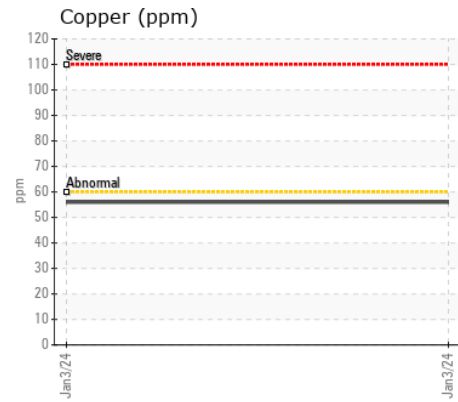
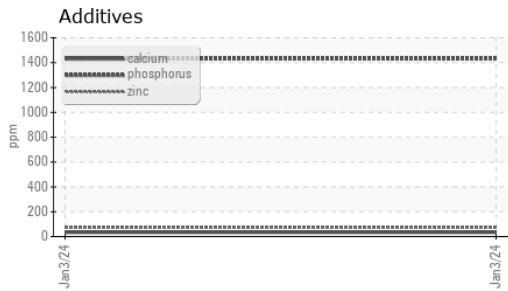
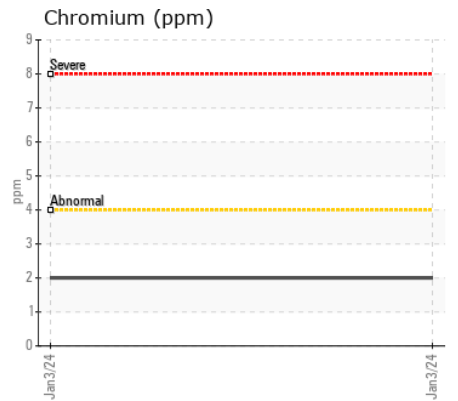
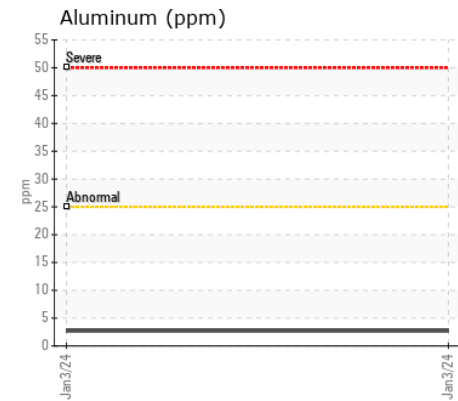
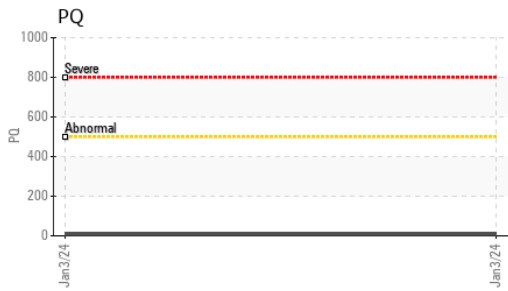
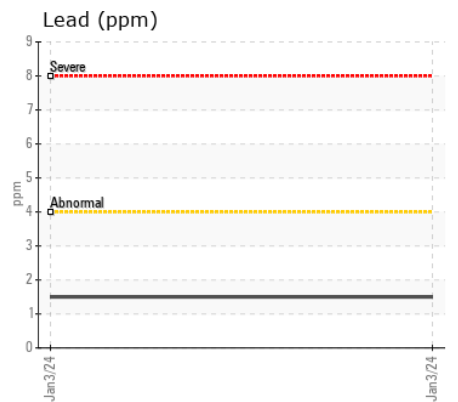
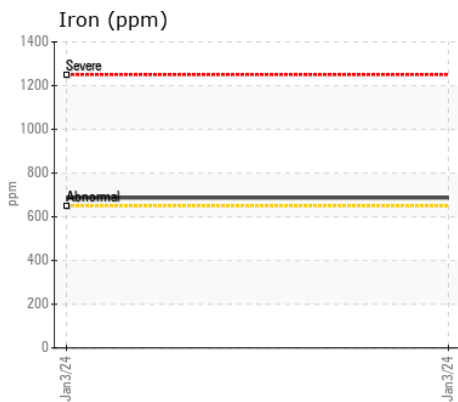
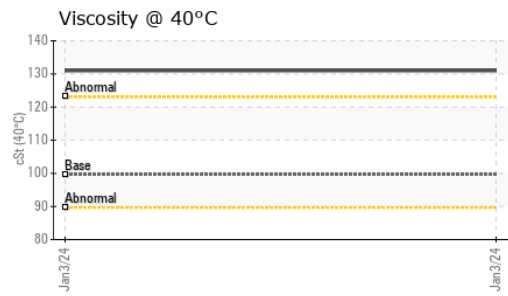
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	8	---	---
Potassium	ppm	ASTM D5185(m)	>20	5	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
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.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		23	---	---
Boron	ppm	ASTM D5185(m)	328	47	---	---
Barium	ppm	ASTM D5185(m)	1	0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		8	---	---
Magnesium	ppm	ASTM D5185(m)	1	4	---	---
Calcium	ppm	ASTM D5185(m)	7	34	---	---
Phosphorus	ppm	ASTM D5185(m)	1145	1431	---	---
Zinc	ppm	ASTM D5185(m)	3	72	---	---
Sulfur	ppm	ASTM D5185(m)	17909	24433	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	131	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0281093 **Received** : 08 Jan 2024
Lab Number : 02607264 **Diagnosed** : 09 Jan 2024
Unique Number : 5708350 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

RICHMOND STEEL RECYCLING
 955 ORD ROAD
 KAMLOOPS, BC
 CA V2B 7B5
 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.

T:
F: