



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30M 73579-1200
Component
Transmission
Fluid
PETRO CANADA 10W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0277567	---	---
Sample Date		Client Info		12 Jan 2024	---	---
Machine Age	hrs	Client Info		13186	---	---
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.

Iron	ppm	ASTM D5185(m)	>148	14	---	---
Chromium	ppm	ASTM D5185(m)	>4	0	---	---
Nickel	ppm	ASTM D5185(m)	>4	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>5	1	---	---
Lead	ppm	ASTM D5185(m)	>203	<1	---	---
Copper	ppm	ASTM D5185(m)	>520	19	---	---
Tin	ppm	ASTM D5185(m)	>7	1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

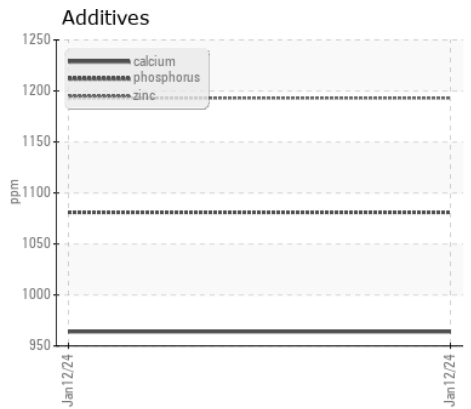
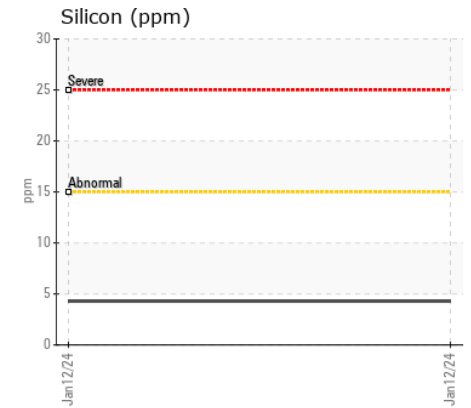
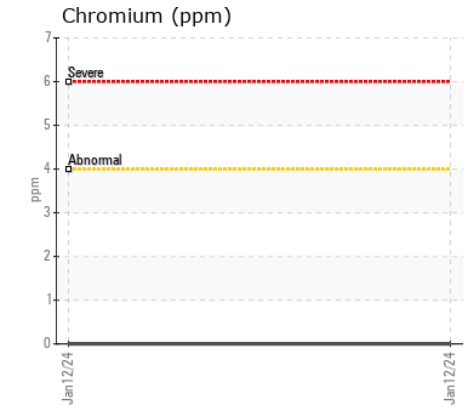
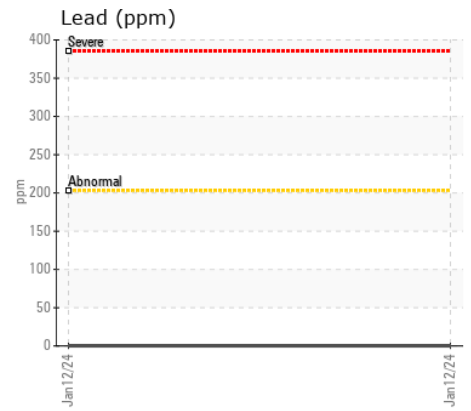
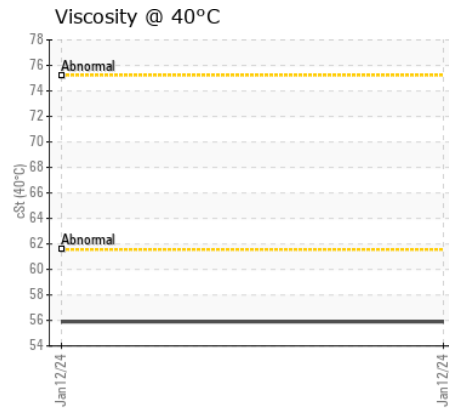
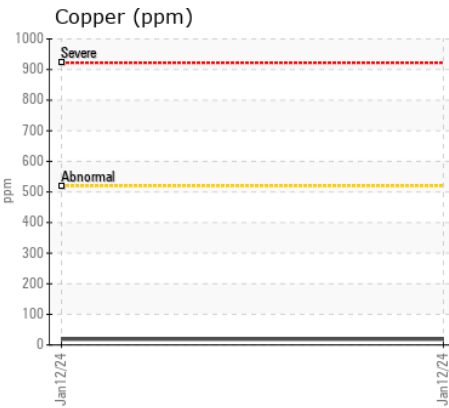
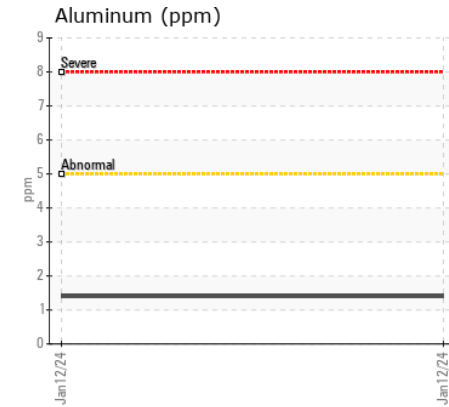
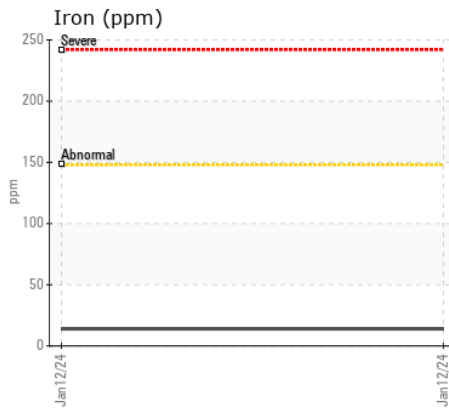
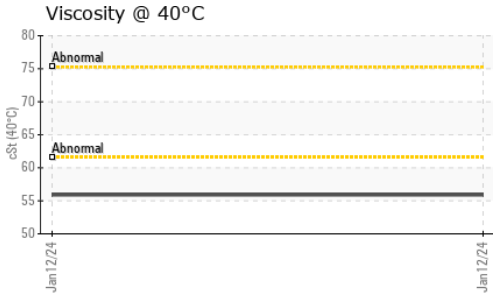
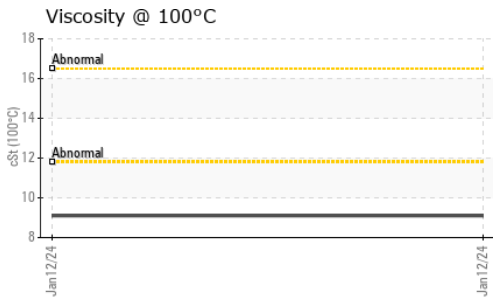
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>15	4	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water		WC Method	>0.1	NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		6.2	---	---
Sulfation	Abs/.1mm	ASTM D7415*		18.2	---	---
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*	>0.1	NEG	---	---

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 5W20 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>20	4	---	---
Boron	ppm	ASTM D5185(m)		35	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		62	---	---
Manganese	ppm	ASTM D5185(m)		5	---	---
Magnesium	ppm	ASTM D5185(m)		1052	---	---
Calcium	ppm	ASTM D5185(m)		964	---	---
Phosphorus	ppm	ASTM D5185(m)		1081	---	---
Zinc	ppm	ASTM D5185(m)		1193	---	---
Sulfur	ppm	ASTM D5185(m)		3098	---	---
Oxidation	Abs/.1mm	ASTM D7414*		15.2	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		55.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		9.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		142	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0277567 **Recieved** : 17 Jan 2024
Lab Number : 02609240 **Diagnosed** : 18 Jan 2024
Unique Number : 5710326 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FT-IR, KV100, VI)

GERDAU METALS
 5402 OLD RICHMOND RD
 NEPEAN, ON
 CA K2R 1G7
 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: