



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(360376)
Machine Id
LIEBHERR LH40M 134365-1215
Component
Transmission (Manual)
Fluid
PETRO CANADA SUPREME 5W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0288362	LH0193118	---
Sample Date		Client Info		31 May 2024	30 May 2022	---
Machine Age	hrs	Client Info		4811	1166	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	17	24	---
Chromium	ppm	ASTM D5185(m)	>5	0	<1	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>7	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	2	4	---
Lead	ppm	ASTM D5185(m)	>45	0	1	---
Copper	ppm	ASTM D5185(m)	>225	18	29	---
Tin	ppm	ASTM D5185(m)	>10	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

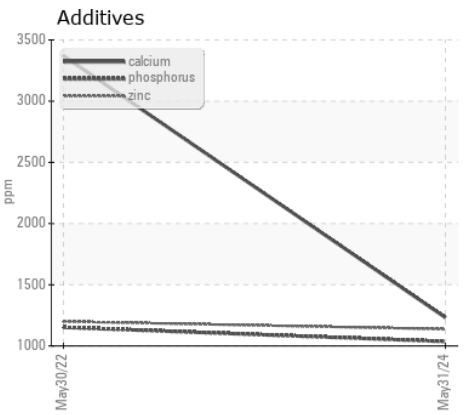
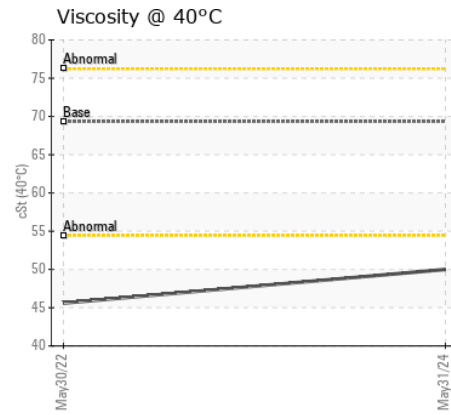
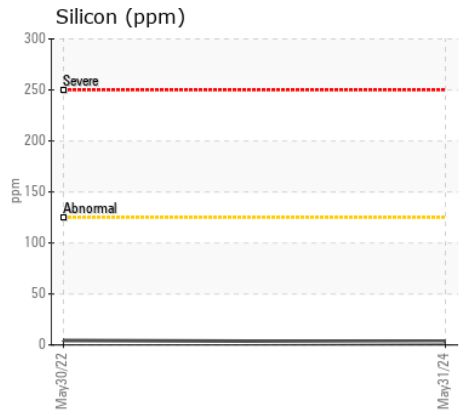
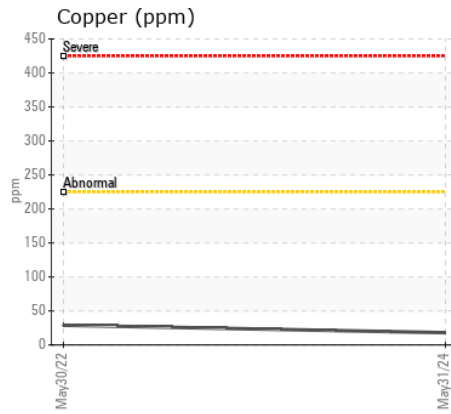
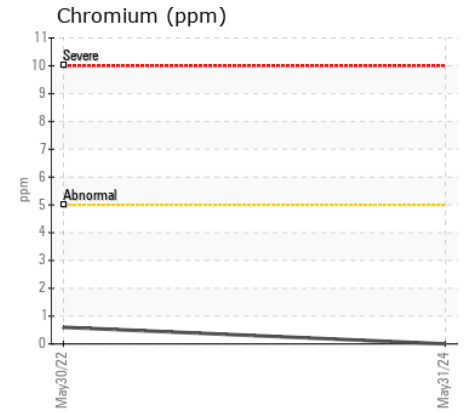
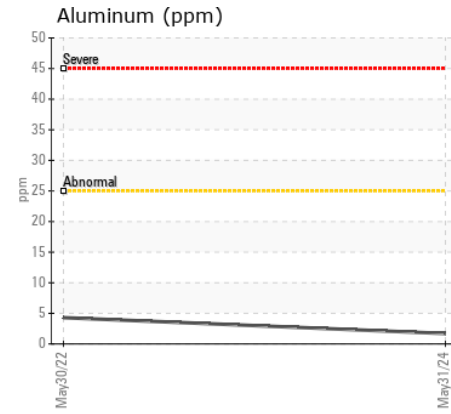
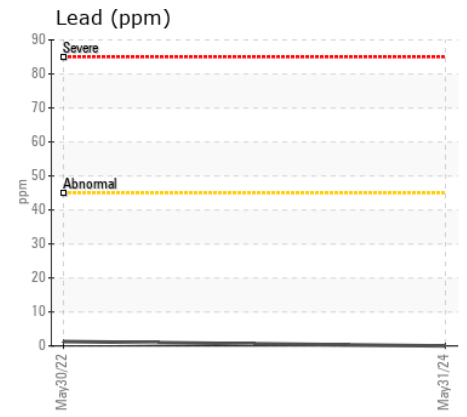
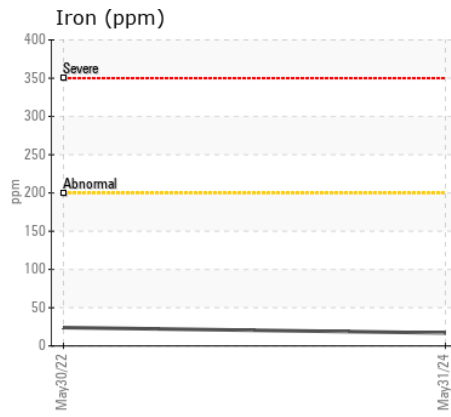
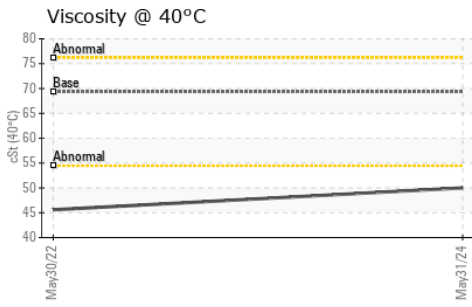
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	3	4	---
Potassium	ppm	ASTM D5185(m)	>20	2	5	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	LIGHT	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 10W range, advise investigate. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		12	49	---
Boron	ppm	ASTM D5185(m)	186	44	5	---
Barium	ppm	ASTM D5185(m)	<1	<1	4	---
Molybdenum	ppm	ASTM D5185(m)	79	48	0	---
Manganese	ppm	ASTM D5185(m)	0	9	16	---
Magnesium	ppm	ASTM D5185(m)	578	910	8	---
Calcium	ppm	ASTM D5185(m)	1002	1232	3370	---
Phosphorus	ppm	ASTM D5185(m)	745	1036	1152	---
Zinc	ppm	ASTM D5185(m)	837	1137	1200	---
Sulfur	ppm	ASTM D5185(m)	2502	3640	8425	---
Visc @ 40°C	cSt	ASTM D7279(m)	69.33	50.0	45.6	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0288362
Lab Number : 02639666
Unique Number : 5788828
Test Package : MOB 1
Received : 04 Jun 2024
Tested : 05 Jun 2024
Diagnosed : 06 Jun 2024 - Kevin Marson

American Iron and Metal
 997 CARPIN BEACH RD
 SAULT ST MARIE, ON
 CA P6A 6K4
 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: