



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
100881
Component
Transmission (Manual)
Fluid
PETRO CANADA 10W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289630	LH0153882	---
Sample Date		Client Info		01 May 2024	16 Jun 2023	---
Machine Age	hrs	Client Info		6974	5929	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		None	None	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	10	11	---
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	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	2	---
Lead	ppm	ASTM D5185(m)	>45	0	<1	---
Copper	ppm	ASTM D5185(m)	>225	14	17	---
Tin	ppm	ASTM D5185(m)	>10	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

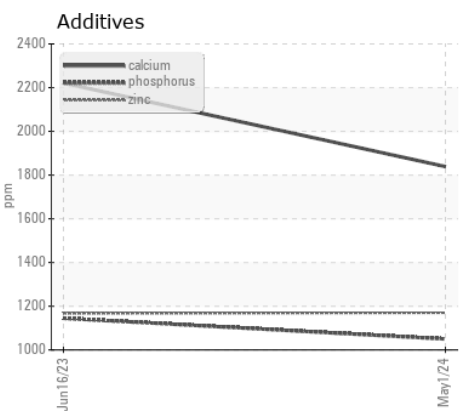
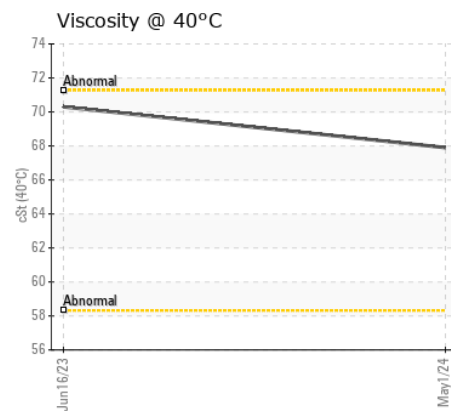
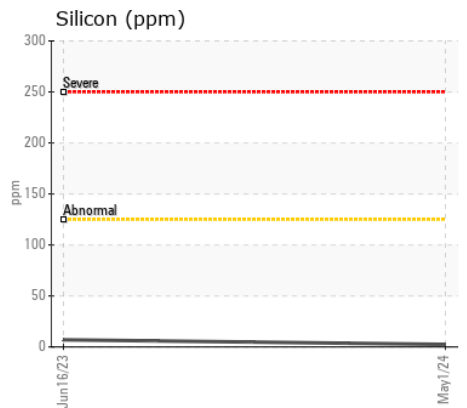
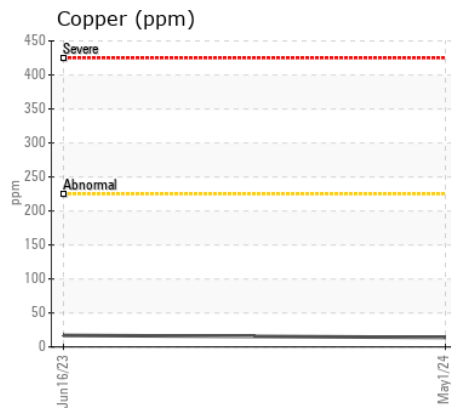
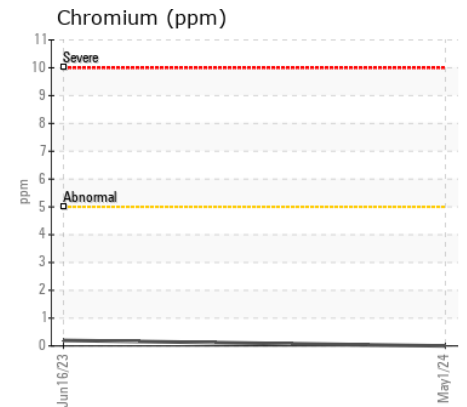
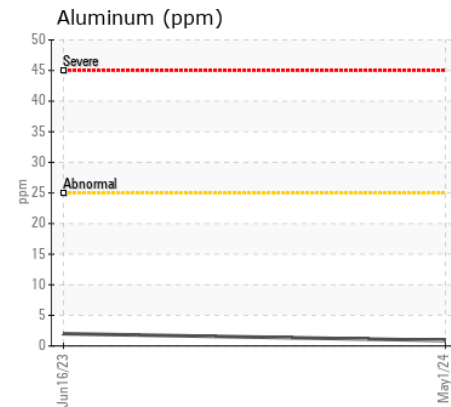
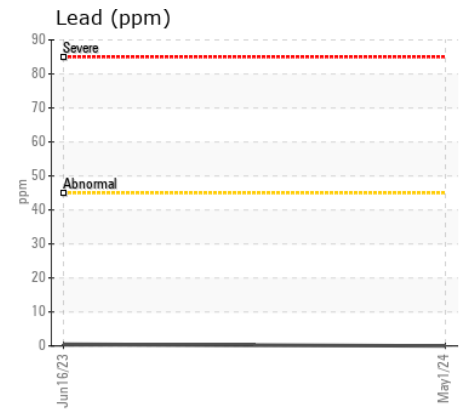
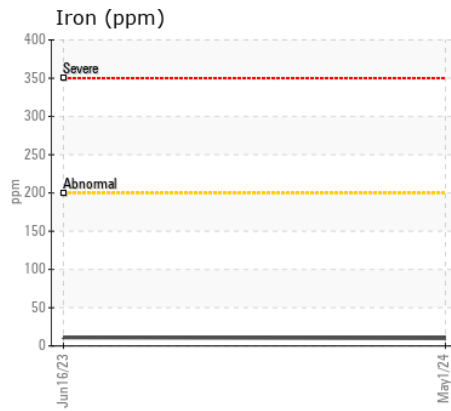
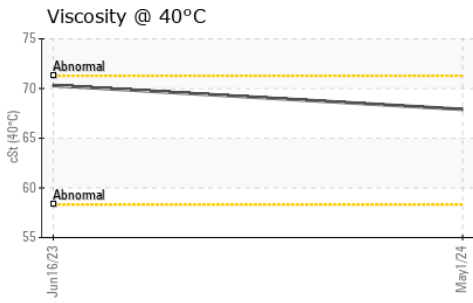
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	2	7	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>20	4	5	---
Boron	ppm	ASTM D5185(m)		55	86	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		47	40	---
Manganese	ppm	ASTM D5185(m)		4	7	---
Magnesium	ppm	ASTM D5185(m)		779	662	---
Calcium	ppm	ASTM D5185(m)		1839	2221	---
Phosphorus	ppm	ASTM D5185(m)		1050	1145	---
Zinc	ppm	ASTM D5185(m)		1170	1168	---
Sulfur	ppm	ASTM D5185(m)		2774	2945	---
Visc @ 40°C	cSt	ASTM D7279(m)		67.9	70.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289630 **Received** : 02 May 2024
Lab Number : 02632831 **Tested** : 02 May 2024
Unique Number : 5773984 **Diagnosed** : 02 May 2024 - Kevin Marson
Test Package : MOB 1

American Iron and Metal
 2555 Sheffield Road
 Ottawa, ON
 CA K1B 3V6
 Contact: Marc Giguere
 magiguere@aim-global.com
 T: (438)334-4682
 F: (613)745-0692

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.