



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(351064)
Machine Id
122398-1216
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		LH0281245	LH0202592	---
Sample Date		Client Info		07 Feb 2024	20 Oct 2021	---
Machine Age	hrs	Client Info		5387	584	---
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	22	20	---
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>7	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	2	3	---
Lead	ppm	ASTM D5185(m)	>45	<1	<1	---
Copper	ppm	ASTM D5185(m)	>225	15	21	---
Tin	ppm	ASTM D5185(m)	>10	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
White Metal	scalar	Visual*	NONE	VLITE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	VLITE	NONE	---

CONTAMINATION

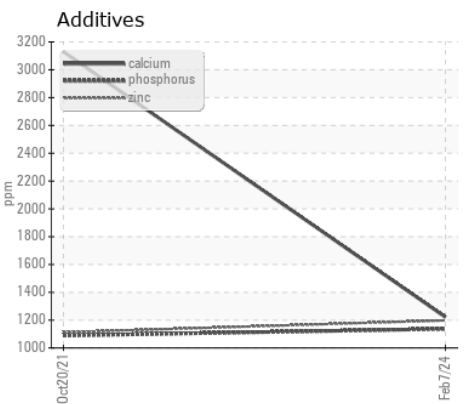
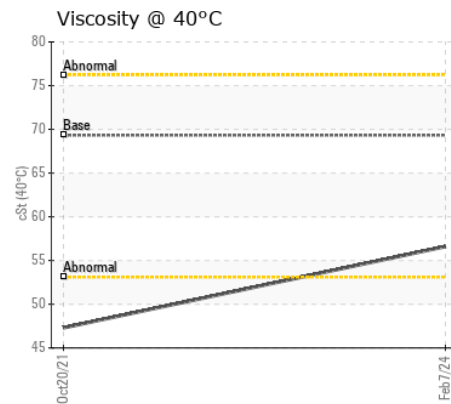
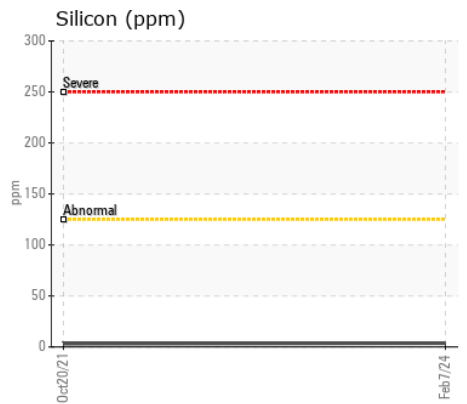
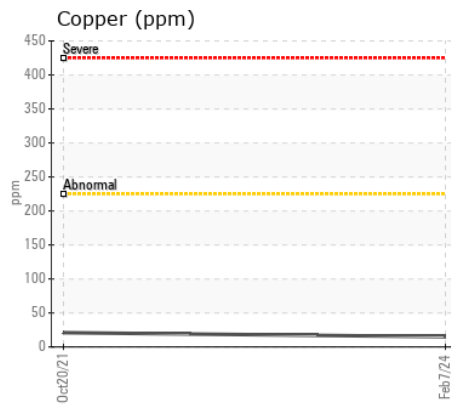
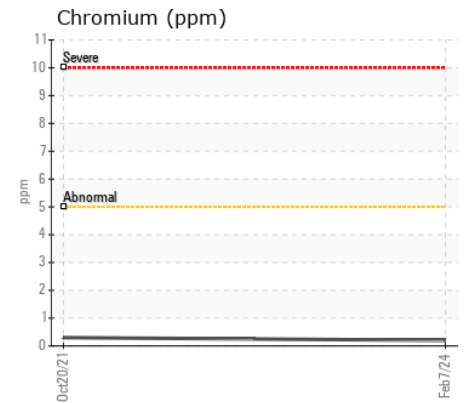
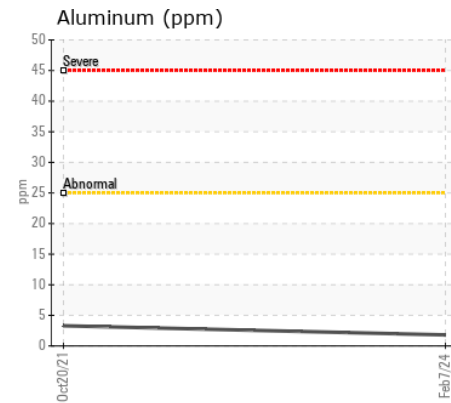
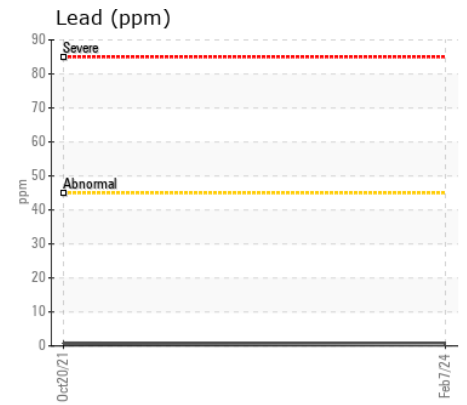
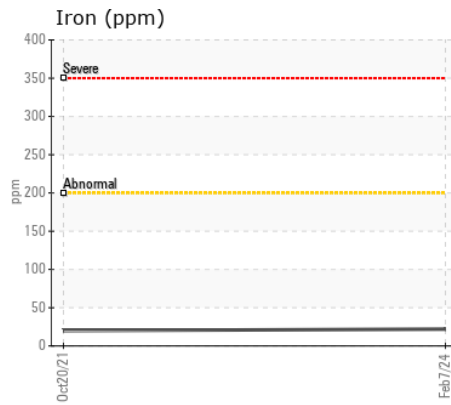
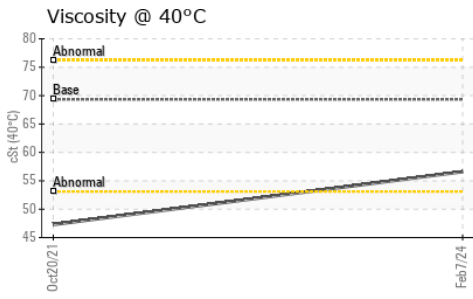
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	4	3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	4	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
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)		7	45	---
Boron	ppm	ASTM D5185(m)	186	13	5	---
Barium	ppm	ASTM D5185(m)	<1	0	1	---
Molybdenum	ppm	ASTM D5185(m)	79	56	0	---
Manganese	ppm	ASTM D5185(m)	0	6	15	---
Magnesium	ppm	ASTM D5185(m)	578	944	7	---
Calcium	ppm	ASTM D5185(m)	1002	1222	3129	---
Phosphorus	ppm	ASTM D5185(m)	745	1137	1089	---
Zinc	ppm	ASTM D5185(m)	837	1198	1112	---
Sulfur	ppm	ASTM D5185(m)	2502	3658	8477	---
Visc @ 40°C	cSt	ASTM D7279(m)	69.33	56.6	47.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0281245 **Received** : 01 Mar 2024
Lab Number : 02619321 **Tested** : 01 Mar 2024
Unique Number : 5736431 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1

American Iron and Metal
 75 Steel City Court
 Hamilton, ON
 CA L8H 3Y2
 Contact: Heavy Equipment
 hamiltonmobileassetmaintenance@aim-recycling.com
 T: (905)547-5533
 F: (905)544-5671

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.