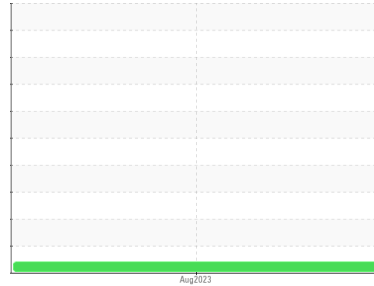




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
OR1022

Component
Drop Box

Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (18 LTR)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0087368	---	---
Sample Date	Client Info	02 Aug 2023	---	---
Machine Age	hrs Client Info	14483	---	---
Oil Age	hrs Client Info	500	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>400	7	---	---
Chromium ppm ASTM D5185(m)	>4	0	---	---
Nickel ppm ASTM D5185(m)	>3	0	---	---
Titanium ppm ASTM D5185(m)		<1	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>15	3	---	---
Lead ppm ASTM D5185(m)	>20	<1	---	---
Copper ppm ASTM D5185(m)	>50	1	---	---
Tin ppm ASTM D5185(m)	>3	0	---	---
Antimony ppm ASTM D5185(m)	>5	0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	2	18	---	---
Barium ppm ASTM D5185(m)	0	0	---	---
Molybdenum ppm ASTM D5185(m)	0	4	---	---
Manganese ppm ASTM D5185(m)	9	<1	---	---
Magnesium ppm ASTM D5185(m)	1	52	---	---
Calcium ppm ASTM D5185(m)	3131	2540	---	---
Phosphorus ppm ASTM D5185(m)	1194	985	---	---
Zinc ppm ASTM D5185(m)	1281	1084	---	---
Sulfur ppm ASTM D5185(m)	3811	3209	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

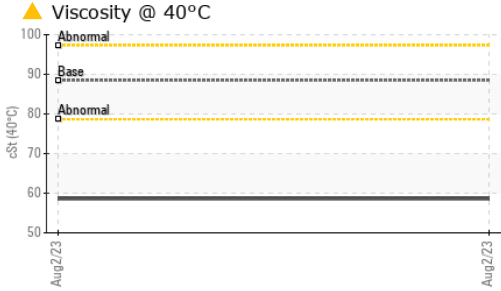
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>60	10	---	---
Sodium ppm ASTM D5185(m)		1	---	---
Potassium ppm ASTM D5185(m)	>20	1	---	---

VISUAL

method	limit/base	current	history1	history2
White Metal scalar Visual*	NONE	NONE	---	---
Yellow Metal scalar Visual*	NONE	NONE	---	---
Precipitate scalar Visual*	NONE	NONE	---	---
Silt scalar Visual*	NONE	NONE	---	---
Debris scalar Visual*	NONE	VLITE	---	---
Sand/Dirt scalar Visual*	NONE	NONE	---	---
Appearance scalar Visual*	NORML	NORML	---	---
Odor scalar Visual*	NORML	NORML	---	---
Emulsified Water scalar Visual*	>0.2	NEG	---	---
Free Water scalar Visual*		NEG	---	---



OIL ANALYSIS REPORT



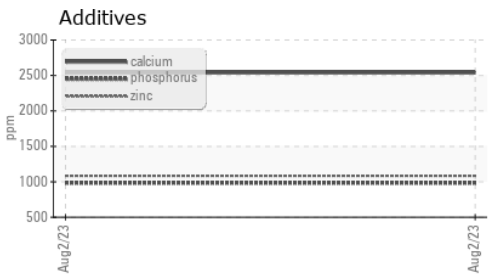
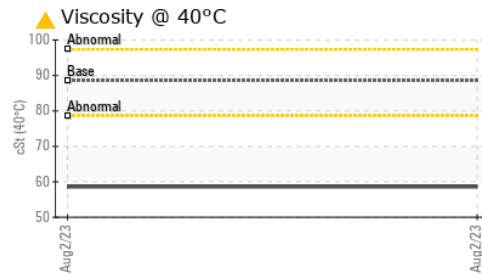
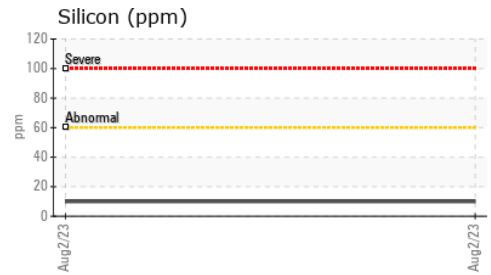
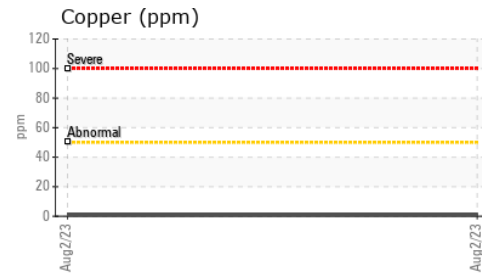
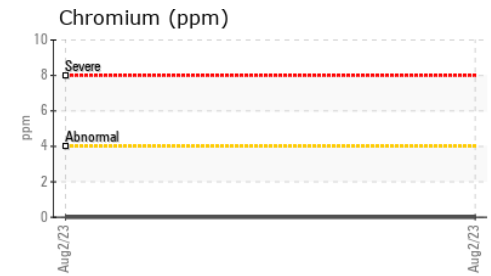
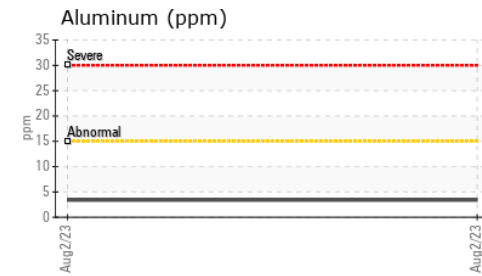
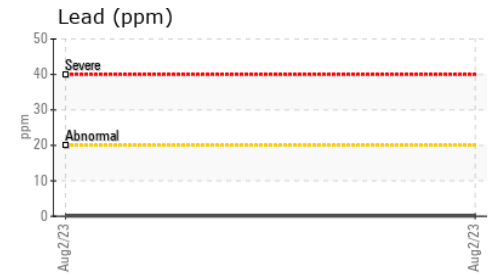
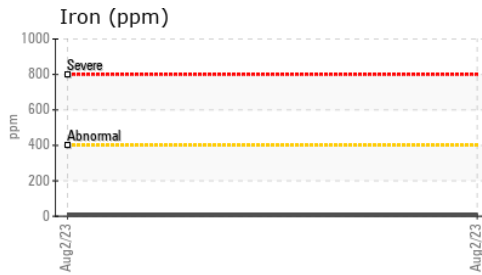
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	88.5	▲ 58.6	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill
Sample No. : GFL0087368 **Received** : 11 Aug 2023
Lab Number : 02575430 **Diagnosed** : 11 Aug 2023
Unique Number : 5620481 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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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