



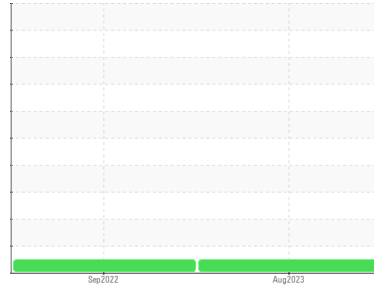
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
OR872
Component
Transmission (Manual)
Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)



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 fluid.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0077027	GFL0054680	---
Sample Date	Client Info		10 Aug 2023	02 Sep 2022	---
Machine Age	hrs	Client Info	20882	19622	---
Oil Age	hrs	Client Info	1260	1500	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			NORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	12	12	---
Chromium	ppm	ASTM D5185(m)	>5	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		<1	<1	---
Silver	ppm	ASTM D5185(m)	>7	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	2	1	---
Lead	ppm	ASTM D5185(m)	>45	<1	<1	---
Copper	ppm	ASTM D5185(m)	>225	4	13	---
Tin	ppm	ASTM D5185(m)	>10	0	<1	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	5	4	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	13	<1	---
Manganese	ppm	ASTM D5185(m)	9	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1	12	11	---
Calcium	ppm	ASTM D5185(m)	3131	3143	3151	---
Phosphorus	ppm	ASTM D5185(m)	1194	1112	1028	---
Zinc	ppm	ASTM D5185(m)	1281	1261	1143	---
Sulfur	ppm	ASTM D5185(m)	3811	5238	3675	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

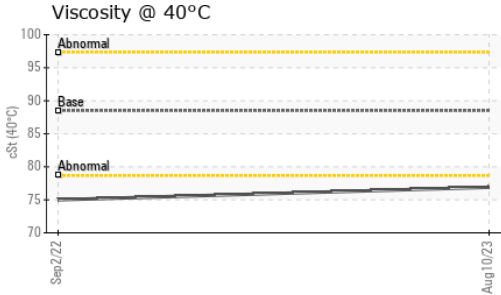
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>125	4	3	---
Sodium	ppm	ASTM D5185(m)		2	1	---
Potassium	ppm	ASTM D5185(m)	>20	2	3	---

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	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	---
Free Water	scalar	Visual*		NEG	NEG	---

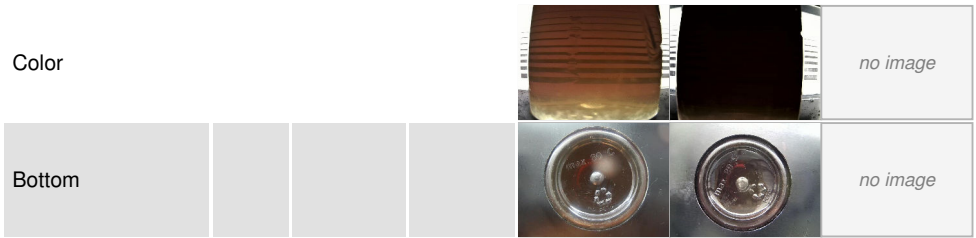


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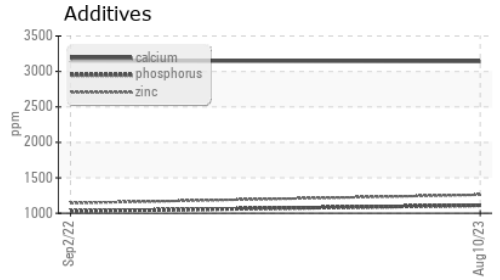
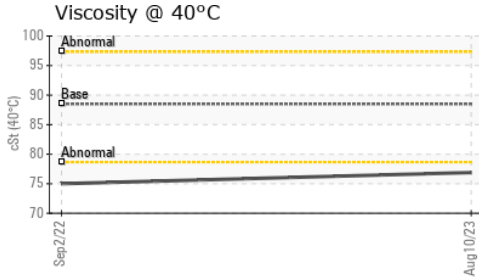
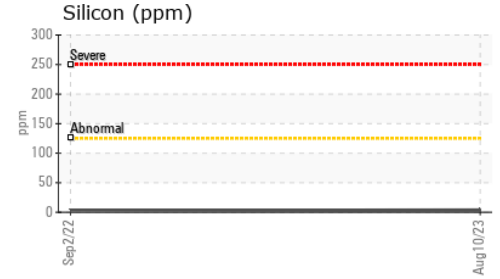
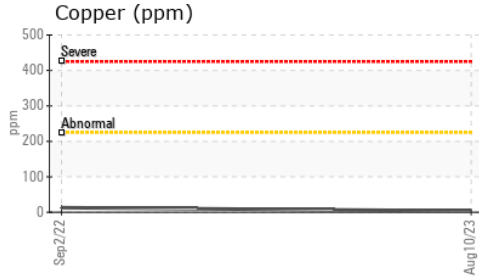
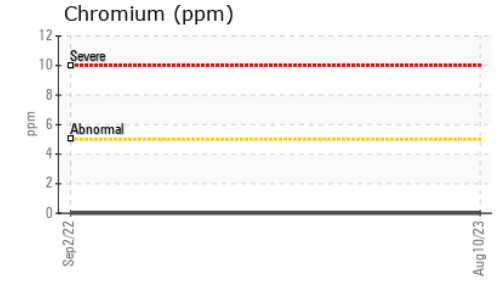
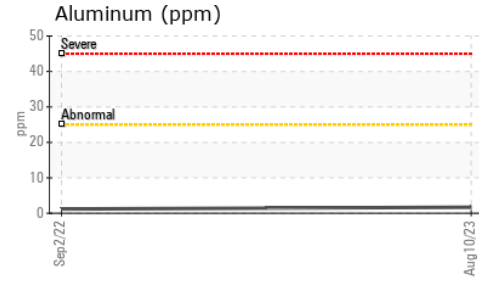
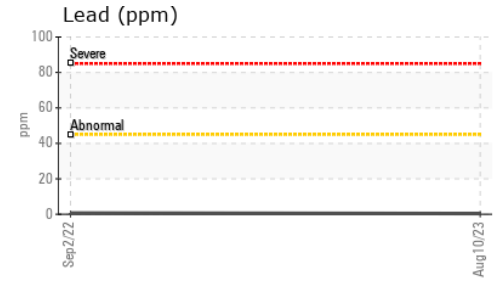
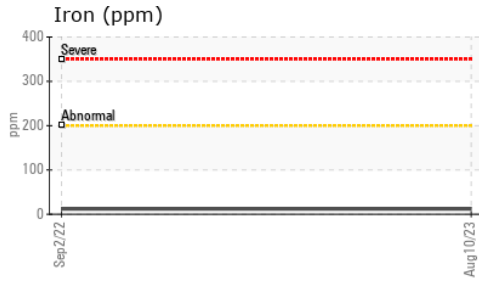


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	76.9	75.0	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling
Sample No. : GFL0077027 **Received** : 15 Aug 2023 38950 Queens Way,
Lab Number : 02575965 **Diagnosed** : 15 Aug 2023 Squamish, BC
Unique Number : 5629025 **Diagnostician** : Wes Davis CA V8B 0K8
Test Package : MOB 1 **Contact:** Dean Imbeau
dimbeau@gflenv.com

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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