



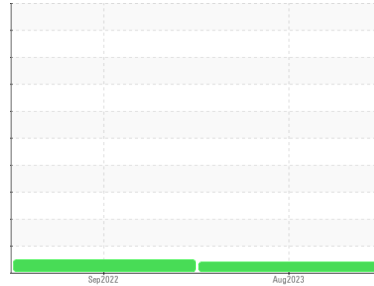
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id
OR872
Component
Rear Differential
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 oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 10W 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		GFL0077028	GFL0054681	---
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	Not Chngd	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	13	27	---
Chromium	ppm	ASTM D5185(m)	>3	1	0	---
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	3	2	---
Lead	ppm	ASTM D5185(m)	>13	2	<1	---
Copper	ppm	ASTM D5185(m)	>103	5	9	---
Tin	ppm	ASTM D5185(m)	>5	0	0	---
Antimony	ppm	ASTM D5185(m)	>5	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	3	2	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	1	<1	---
Manganese	ppm	ASTM D5185(m)	9	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1	18	9	---
Calcium	ppm	ASTM D5185(m)	3131	3297	3036	---
Phosphorus	ppm	ASTM D5185(m)	1194	1000	1028	---
Zinc	ppm	ASTM D5185(m)	1281	1137	1156	---
Sulfur	ppm	ASTM D5185(m)	3811	3802	3656	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

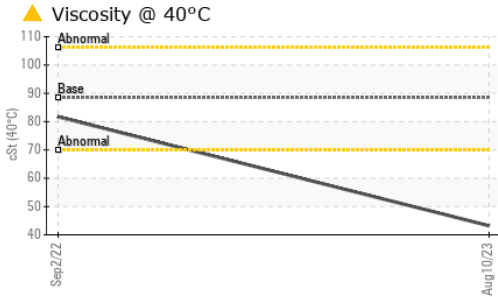
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>100	16	5	---
Sodium	ppm	ASTM D5185(m)		3	2	---
Potassium	ppm	ASTM D5185(m)	>20	2	2	---

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*	>.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---



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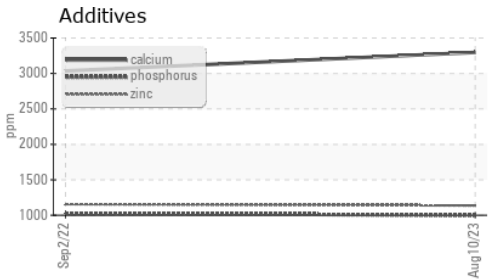
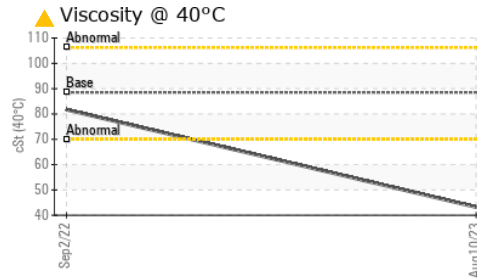
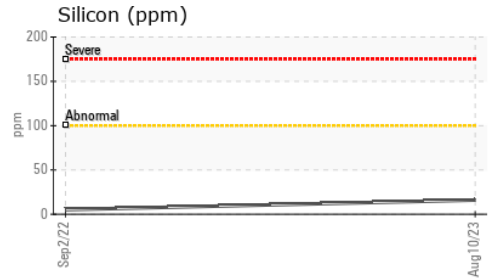
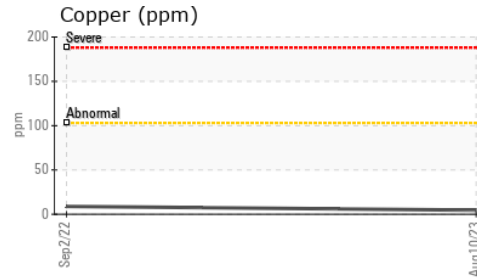
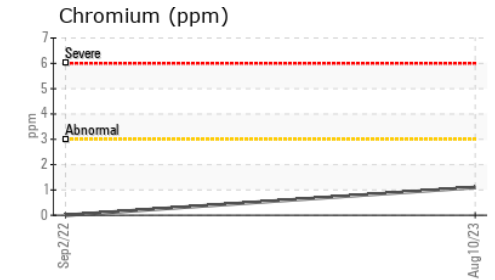
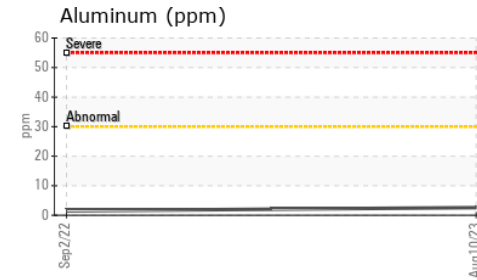
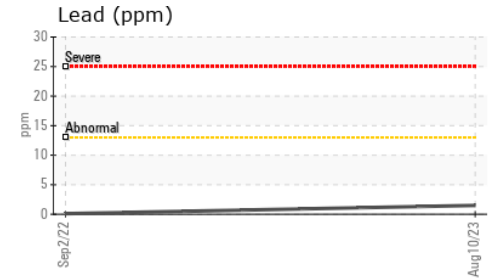
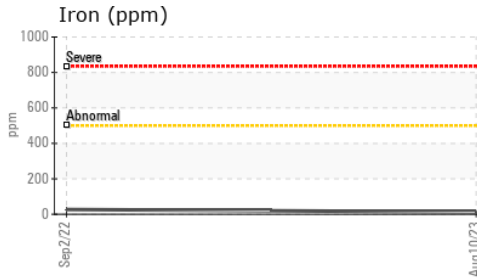
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	▲ 43.2	81.7	---

SAMPLE IMAGES

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

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling
Sample No. : GFL0077028 **Received** : 15 Aug 2023 38950 Queens Way,
Lab Number : 02575974 **Diagnosed** : 16 Aug 2023 Squamish, BC
Unique Number : 5629034 **Diagnostician** : Kevin Marson 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.

T: (604)892-5604

F: (604)892-5238