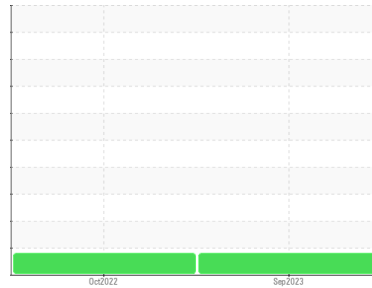




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
401024

Component
Transmission (Auto)

Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)

DIAGNOSIS

Recommendation

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Aluminum ppm levels are abnormal. Torque converter wear is indicated.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0091612	GFL0060242	---
Sample Date	Client Info	13 Sep 2023	25 Oct 2022	---
Machine Age	hrs	0	16804	---
Oil Age	hrs	0	1030	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2		
PQ	ASTM D8184*	>50	0	0	---	
Iron	ppm	ASTM D5185(m)	>160	133	114	---
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)	>5	0	0	---
Aluminum	ppm	ASTM D5185(m)	>50	▲ 73	▲ 61	---
Lead	ppm	ASTM D5185(m)	>50	19	15	---
Copper	ppm	ASTM D5185(m)	>225	123	114	---
Tin	ppm	ASTM D5185(m)	>10	8	6	---
Antimony	ppm	ASTM D5185(m)		0	0	---
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)	78	132	149	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	<1	---
Manganese	ppm	ASTM D5185(m)		1	1	---
Magnesium	ppm	ASTM D5185(m)	0	1	<1	---
Calcium	ppm	ASTM D5185(m)	113	102	100	---
Phosphorus	ppm	ASTM D5185(m)	222	399	411	---
Zinc	ppm	ASTM D5185(m)		29	24	---
Sulfur	ppm	ASTM D5185(m)	1326	1838	1940	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

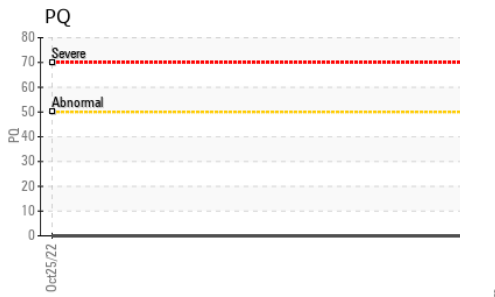
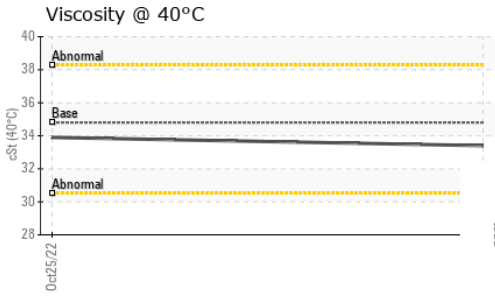
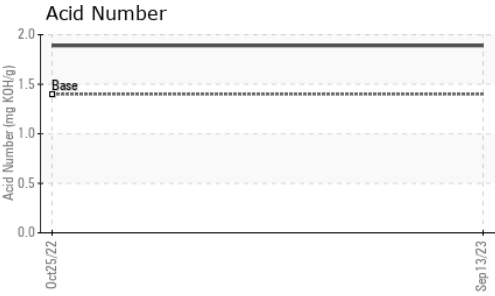
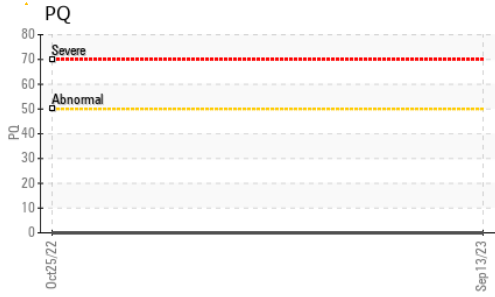
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>20	9	9	---
Sodium	ppm	ASTM D5185(m)		17	15	---
Potassium	ppm	ASTM D5185(m)	>20	3	2	---

FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	1.89	1.89	---



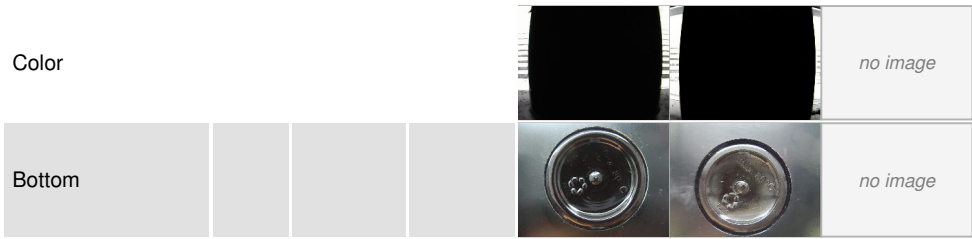
OIL ANALYSIS REPORT



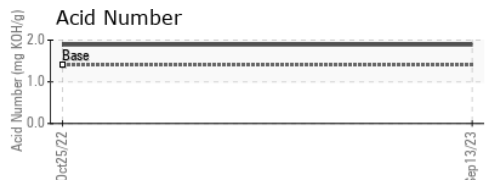
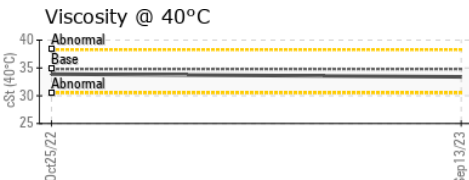
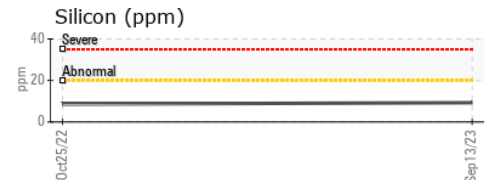
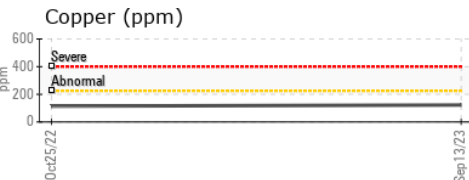
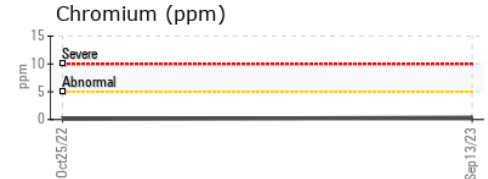
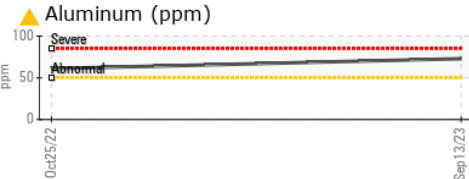
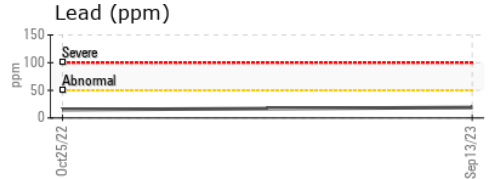
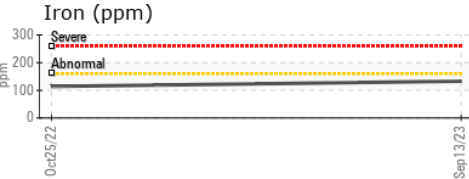
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	33.4	33.9

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 - 550 - Rocky View County
Sample No. : GFL0091612 **Received** : 19 Sep 2023 220 Carmek Blvd
Lab Number : **02583638** **Diagnosed** : 20 Sep 2023 Rocky View County, AB
Unique Number : 5644703 **Diagnostician** : Bill Quesnel CA T1X 1X1
Test Package : MOB 2 (Additional Tests: PQ, TAN Man) Contact: GFL Calgary
 calgarymaintenance@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:
 F: (403)369-6163