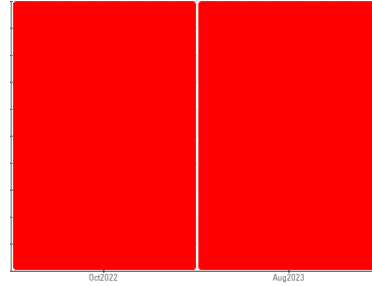




PROBLEM SUMMARY

Sample Rating Trend

WEAR



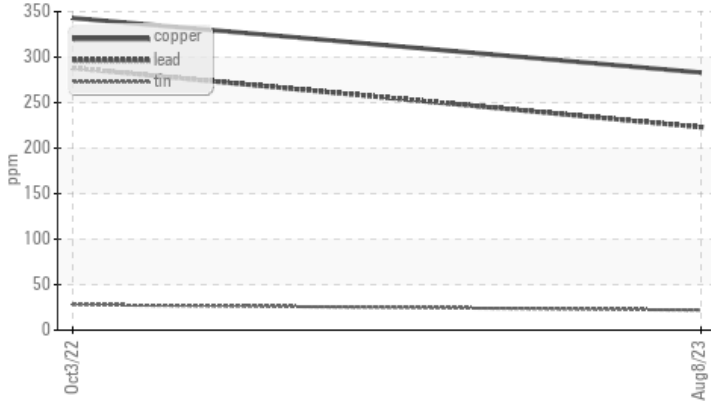
Machine Id
229078-191

Component
Transmission (Auto)

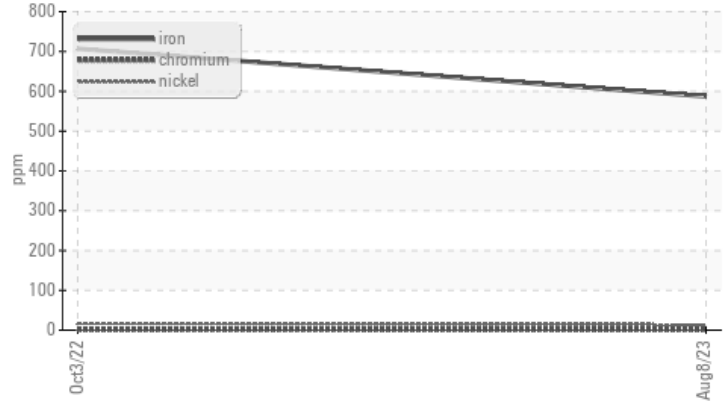
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)

COMPONENT CONDITION SUMMARY

Non-ferrous Metals



Ferrous Alloys



RECOMMENDATION

We recommend that you drain the fluid and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>160	587	707	---
Nickel	ppm	ASTM D5185m	>5	13	17	---
Lead	ppm	ASTM D5185m	>50	223	288	---
Copper	ppm	ASTM D5185m	>225	283	343	---
Tin	ppm	ASTM D5185m	>10	22	28	---

Customer Id: GFL166
Sample No.: GFL0087824
Lab Number: 05920940
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the fluid and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the fluid and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

03 Oct 2022 Diag: Don Baldrige

WEAR



We recommend that you drain the fluid and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Bearing, clutch or torque converter wear is indicated. There is no indication of any contamination in the fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

view report

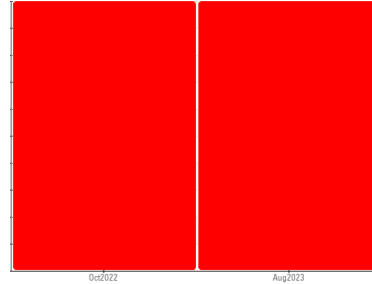




OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
229078-191

Component
Transmission (Auto)

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

DIAGNOSIS

Recommendation

We recommend that you drain the fluid and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The iron level is severe. Clutch and/or bushing/bearing wear is indicated.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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		GFL0087824	GFL0058773	---
Sample Date	Client Info		08 Aug 2023	03 Oct 2022	---
Machine Age	mls	Client Info	165740	164927	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		Not Changed	Not Changed	---
Sample Status			SEVERE	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >160	587	707	---
Chromium	ppm	ASTM D5185m >5	1	1	---
Nickel	ppm	ASTM D5185m >5	13	17	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m >5	0	0	---
Aluminum	ppm	ASTM D5185m >50	41	54	---
Lead	ppm	ASTM D5185m >50	223	288	---
Copper	ppm	ASTM D5185m >225	283	343	---
Tin	ppm	ASTM D5185m >10	22	28	---
Vanadium	ppm	ASTM D5185m	0	1	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	70	75	---
Barium	ppm	ASTM D5185m	2	0	---
Molybdenum	ppm	ASTM D5185m	<1	<1	---
Manganese	ppm	ASTM D5185m	6	7	---
Magnesium	ppm	ASTM D5185m	2	0	---
Calcium	ppm	ASTM D5185m	346	425	---
Phosphorus	ppm	ASTM D5185m	163	231	---
Zinc	ppm	ASTM D5185m	11	0	---
Sulfur	ppm	ASTM D5185m	1927	2380	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	17	21	---
Sodium	ppm	ASTM D5185m	10	14	---
Potassium	ppm	ASTM D5185m >20	7	8	---

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	---

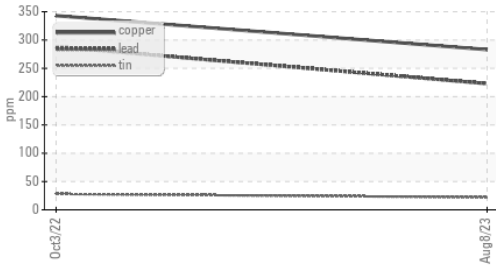
FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 34	26.3	23.9	---



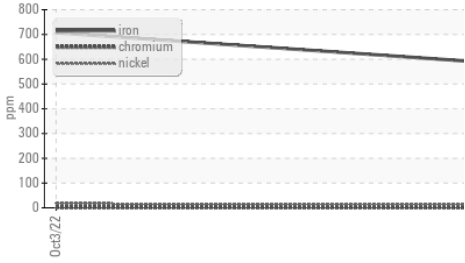
OIL ANALYSIS REPORT

Non-ferrous Metals



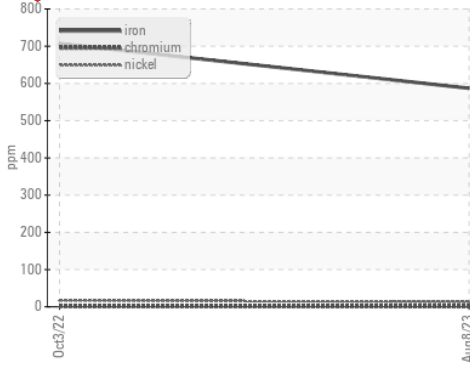
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

Ferrous Alloys

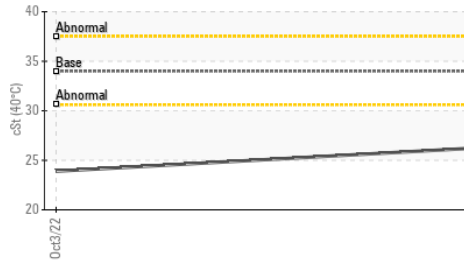


GRAPHS

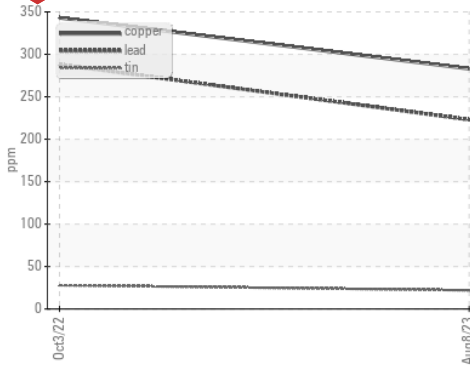
Ferrous Alloys



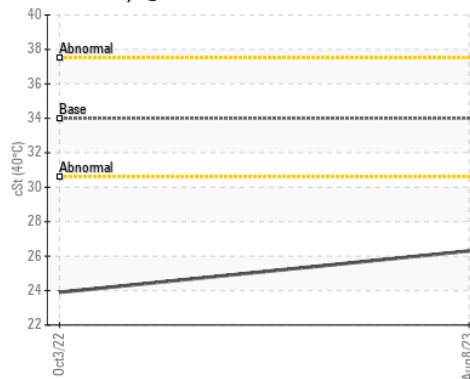
Viscosity @ 40°C



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0087824 **Received** : 10 Aug 2023
Lab Number : 05920940 **Diagnosed** : 11 Aug 2023
Unique Number : 10592854 **Diagnostician** : Don Baldrige
Test Package : FLEET

GFL Environmental - 166 - Phenix City
 18 Old Brickyard Rd
 Phenix City, AL
 US 36869
 Contact: DEAN PEACE JR
 dean.peace@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: