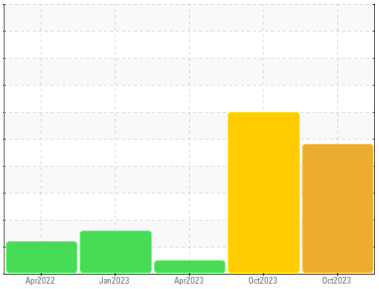
PROBLEM SUMMARY

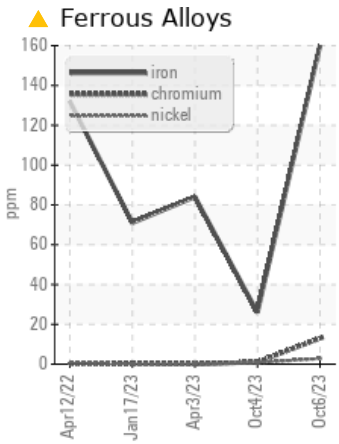
Sample Rating Trend

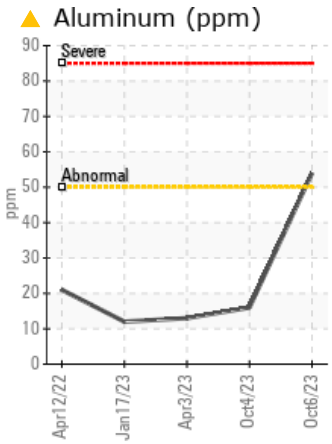


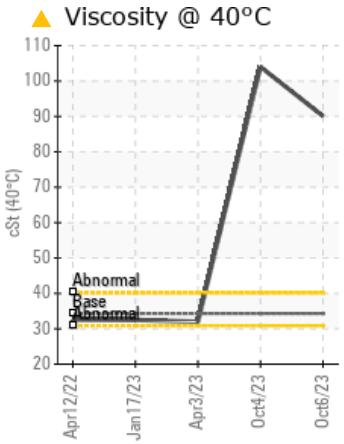
WEAR

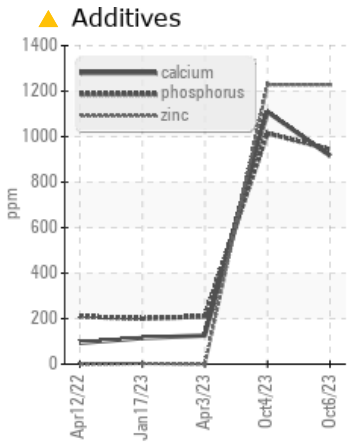
Machine Id
727098-310077
Component
Transmission (Auto)
Fluid
PETRO CANADA TEF 295 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>160	▲ **160**	26	84
Aluminum	ppm	ASTM D5185m	>50	▲ **54**	16	13
Boron	ppm	ASTM D5185m	100	▲ **4**	▲ 2	67
Molybdenum	ppm	ASTM D5185m		▲ **50**	▲ 57	<1
Magnesium	ppm	ASTM D5185m		▲ **833**	▲ 921	5
Calcium	ppm	ASTM D5185m	30	▲ **916**	▲ 1109	126
Phosphorus	ppm	ASTM D5185m	220	▲ **944**	▲ 1015	210
Zinc	ppm	ASTM D5185m	4	▲ **1228**	▲ 1228	0
Sulfur	ppm	ASTM D5185m	1060	▲ **2414**	▲ 3637	1555
Visc @ 40°C	cSt	ASTM D445	34.3	▲ **90.1**	▲ 104	32.0

Customer Id: GFL844
Sample No.: GFL0080046
Lab Number: 05982140
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

04 Oct 2023 Diag: Jonathan Hester

WATER

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a light concentration of water present in the fluid. The fluid viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of fluid. Confirm oil type.

view report

03 Apr 2023 Diag: Sean Felton

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

view report

17 Jan 2023 Diag: Don Baldridge

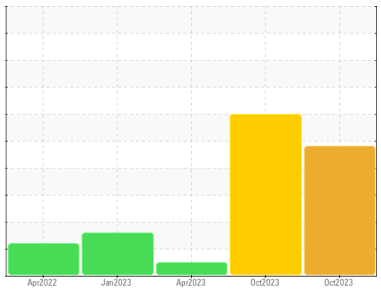
VISUAL METAL

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Moderate concentration of visible metal present. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
727098-310077
Component
Transmission (Auto)
Fluid
PETRO CANADA TEF 295 (--- GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
Gear wear is indicated.

Contamination
There is no indication of any contamination in the fluid.

Fluid Condition
The fluid viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of fluid. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0080046**	GFL0080051	GFL0075009
Sample Date		Client Info		**06 Oct 2023**	04 Oct 2023	03 Apr 2023
Machine Age	hrs	Client Info		**13842**	13823	13423
Oil Age	hrs	Client Info		**600**	98	0
Oil Changed		Client Info		**Changed**	Not Changd	N/A
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	▲ **160**	26	84
Chromium	ppm	ASTM D5185m	>5	**13**	1	0
Nickel	ppm	ASTM D5185m	>5	**3**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	0	0
Aluminum	ppm	ASTM D5185m	>50	▲ **54**	16	13
Lead	ppm	ASTM D5185m	>50	**1**	<1	<1
Copper	ppm	ASTM D5185m	>225	**8**	5	6
Tin	ppm	ASTM D5185m	>10	**1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

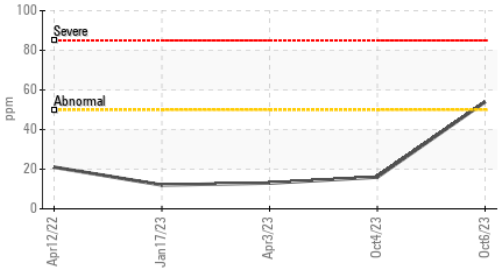
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	▲ **4**	▲ 2	67
Barium	ppm	ASTM D5185m		**0**	2	0
Molybdenum	ppm	ASTM D5185m		▲ **50**	▲ 57	<1
Manganese	ppm	ASTM D5185m		**2**	<1	1
Magnesium	ppm	ASTM D5185m		▲ **833**	▲ 921	5
Calcium	ppm	ASTM D5185m	30	▲ **916**	▲ 1109	126
Phosphorus	ppm	ASTM D5185m	220	▲ **944**	▲ 1015	210
Zinc	ppm	ASTM D5185m	4	▲ **1228**	▲ 1228	0
Sulfur	ppm	ASTM D5185m	1060	▲ **2414**	▲ 3637	1555

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**16**	6	5
Sodium	ppm	ASTM D5185m		**50**	2	3
Potassium	ppm	ASTM D5185m	>20	**96**	▲ 26	0

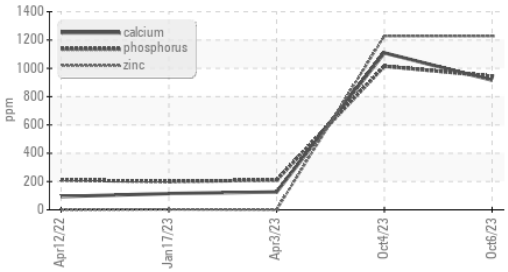
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

OIL ANALYSIS REPORT

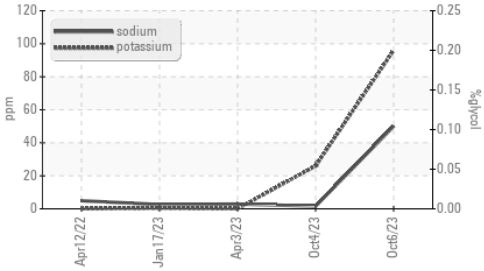
Aluminum (ppm)



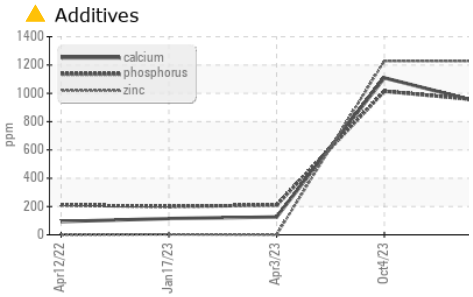
Additives



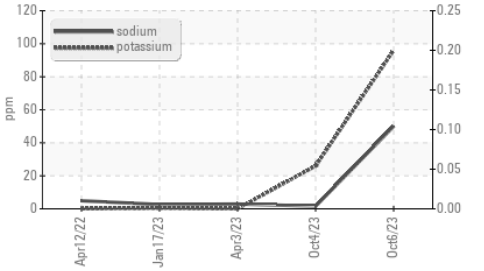
Glycol Contamination



Additives



Glycol Contamination

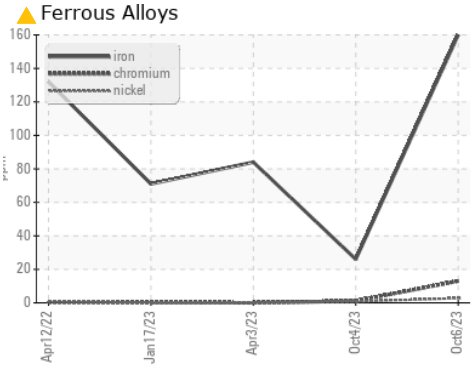


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	34.3	▲ **90.1**	▲ 104	32.0

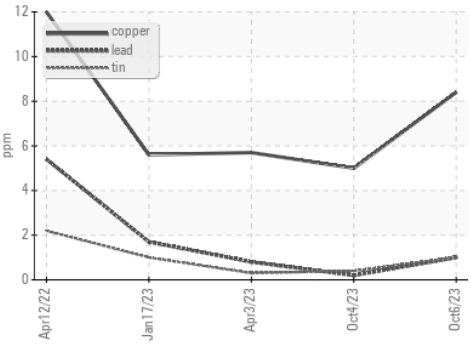
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

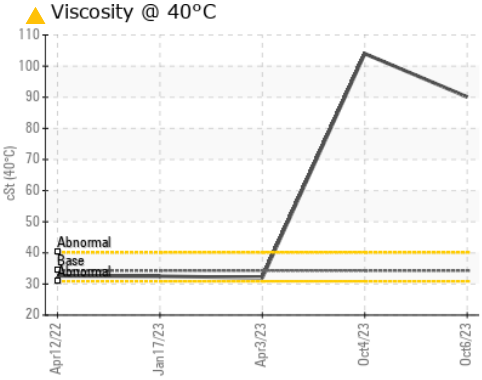
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0080046	**Received**	: 17 Oct 2023
Lab Number	: 05982140	**Diagnosed**	: 19 Oct 2023
Unique Number	: 10699435	**Diagnostician**	: Jonathan Hester
Test Package	: FLEET (Additional Tests: Glycol)		

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)

GFL Environmental - 844 - Princeton Hauling
10129 Highway 62 West
Princeton, KY
US 42445
Contact: Kenneth Bigers
kbigers@gflenv.com
T: (270)970-0371
F: