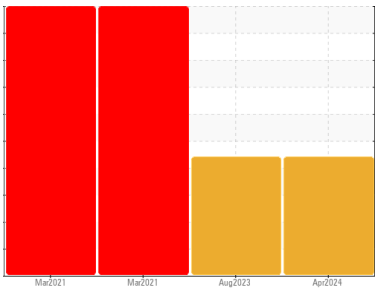
OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL

Machine Id
OR343
Component
Transmission (Auto)
Fluid
PETRO CANADA DURATRAN (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of the coolant leak. We recommend that you drain the fluid from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with fluid. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. (Customer Sample Comment:
Top Up Amount: 10)

Wear
All component wear rates are normal.

Contamination
Test for glycol is positive. There is a light concentration of glycol present in the fluid.

Fluid Condition
Additive levels indicate the addition of a different brand, or type of fluid. The condition of the fluid is acceptable for the time in service. The fluid is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0113342**	GFL0092258	GFL0010815
Sample Date		Client Info		**15 Apr 2024**	21 Aug 2023	10 Mar 2021
Machine Age	hrs	Client Info		**16058**	15462	0
Oil Age	hrs	Client Info		**12981**	500	5
Oil Changed		Client Info		**Oil Added**	Not Changd	Changed
Sample Status				**ATTENTION**	ABNORMAL	SEVERE

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

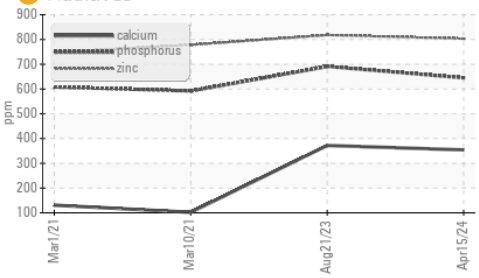
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>160	**35**	9	6
Chromium	ppm	ASTM D5185(m)	>5	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>5	**0**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>5	**0**	0	<1
Aluminum	ppm	ASTM D5185(m)	>50	**0**	<1	<1
Lead	ppm	ASTM D5185(m)	>50	**2**	2	2
Copper	ppm	ASTM D5185(m)	>225	**4**	4	1
Tin	ppm	ASTM D5185(m)	>10	**0**	0	0
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	110	**8**	11	10
Barium	ppm	ASTM D5185(m)	0.0	**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)	0.0	**0**	<1	<1
Manganese	ppm	ASTM D5185(m)	1	**<1**	0	<1
Magnesium	ppm	ASTM D5185(m)	13	**7**	6	2
Calcium	ppm	ASTM D5185(m)	3610	**354**	372	102
Phosphorus	ppm	ASTM D5185(m)	1192	**645**	691	592
Zinc	ppm	ASTM D5185(m)	1455	**803**	818	778
Sulfur	ppm	ASTM D5185(m)	2641	**1581**	1534	1507
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

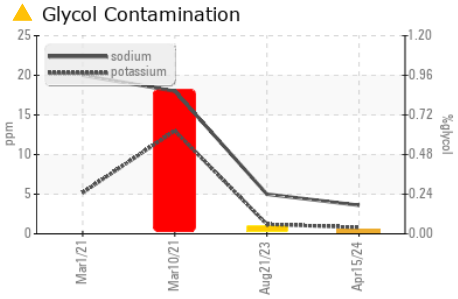
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**0**	1	3
Sodium	ppm	ASTM D5185(m)		**4**	5	18
Potassium	ppm	ASTM D5185(m)	>20	**<1**	1	13
Glycol	%	ASTM D7922*		**0.024**	0.046	0.871

OIL ANALYSIS REPORT

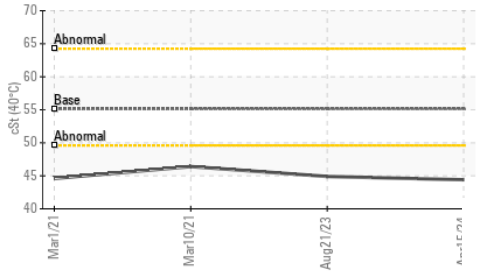
Additives



Glycol Contamination



Viscosity @ 40°C



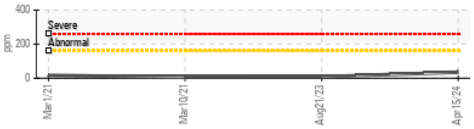
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	▲ HAZY
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	▲ .5%
Free Water	scalar	Visual*		**NEG**	NEG	▲ .2%

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	**44.4**	44.9	46.4

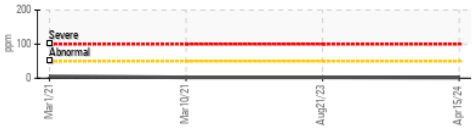
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

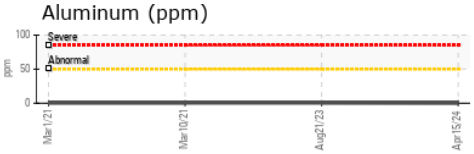
Iron (ppm)



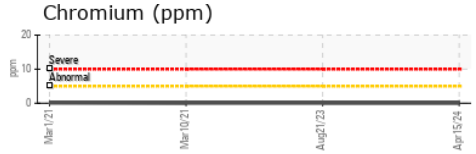
Lead (ppm)



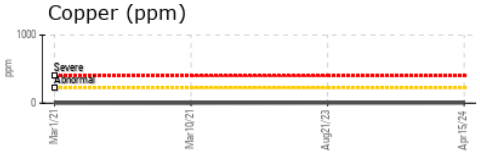
Aluminum (ppm)



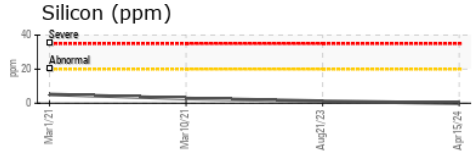
Chromium (ppm)



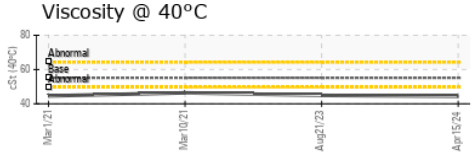
Copper (ppm)



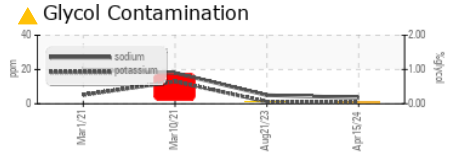
Silicon (ppm)



Viscosity @ 40°C



Glycol Contamination



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113342
Lab Number : 02631035
Unique Number : 5772188
Test Package : MOB 1

Received : 23 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 24 Apr 2024 - Kevin Marson

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.

GFL Environmental - 720 - Lafleche - Landfill
17125 Lafleche Road,
Moose Creek, ON
CA K0C 1W0
Contact: Charles Bergeron
cbergeron@gflenv.com
T: (613)538-4853
F: