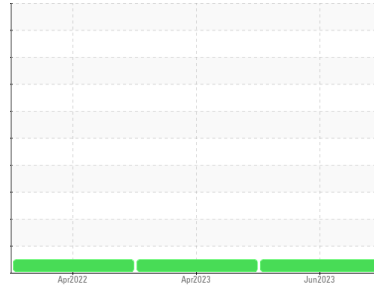




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
Or392

Component
Transmission (Manual)

Fluid
PETRO CANADA DURATRAN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: ZF transmission)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0056417	GFL0056405	GFL0049012
Sample Date	Client Info	12 Jun 2023	17 Apr 2023	29 Apr 2022
Machine Age	hrs	8240	8240	6447
Oil Age	hrs	1400	1000	1000
Oil Changed	Client Info	Changed	Changed	Not Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >200	29	30	20
Chromium	ppm	ASTM D5185(m) >5	1	<1	<1
Nickel	ppm	ASTM D5185(m) >5	<1	0	0
Titanium	ppm	ASTM D5185(m)	<1	<1	0
Silver	ppm	ASTM D5185(m) >7	0	0	<1
Aluminum	ppm	ASTM D5185(m) >25	1	2	1
Lead	ppm	ASTM D5185(m) >45	<1	<1	<1
Copper	ppm	ASTM D5185(m) >225	6	4	4
Tin	ppm	ASTM D5185(m) >10	0	0	0
Antimony	ppm	ASTM D5185(m)	<1	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	18	20	20
Barium	ppm	ASTM D5185(m) 0.0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 0.0	4	4	2
Manganese	ppm	ASTM D5185(m) 1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m) 13	114	102	84
Calcium	ppm	ASTM D5185(m) 3610	2633	2883	2827
Phosphorus	ppm	ASTM D5185(m) 1192	1019	1033	984
Zinc	ppm	ASTM D5185(m) 1455	1087	1137	1162
Sulfur	ppm	ASTM D5185(m) 2641	2835	2898	2871
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

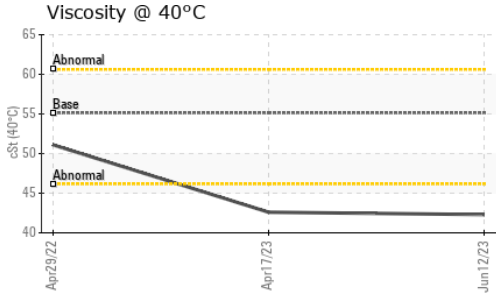
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >125	7	7	6
Sodium	ppm	ASTM D5185(m)	3	3	2
Potassium	ppm	ASTM D5185(m) >20	<1	1	1

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	NORML
Odor	scalar	Visual* NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual* >0.1	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

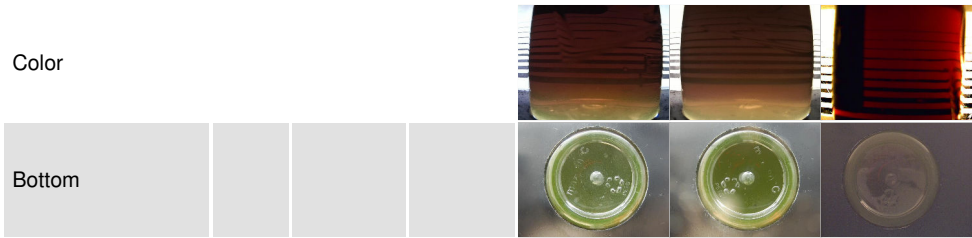


OIL ANALYSIS REPORT

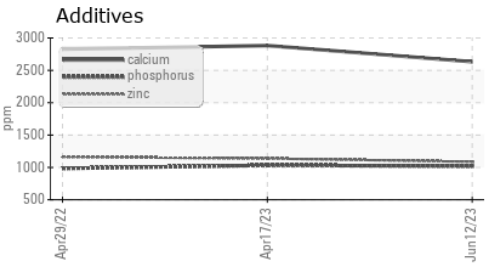
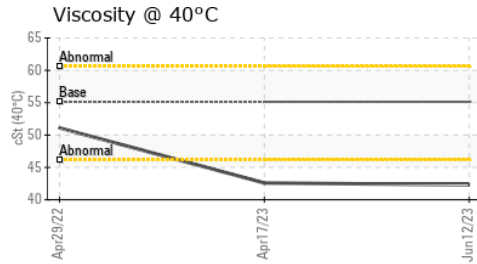
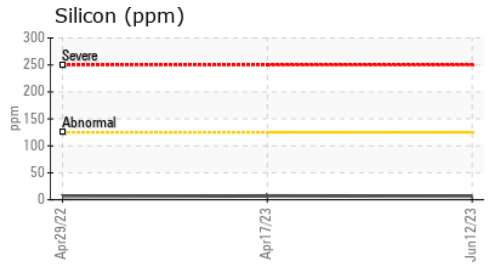
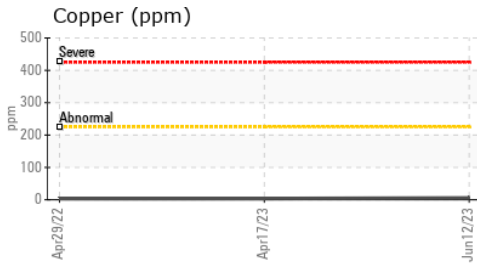
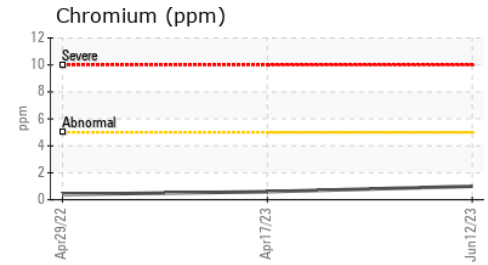
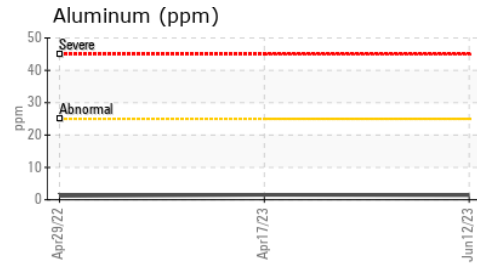
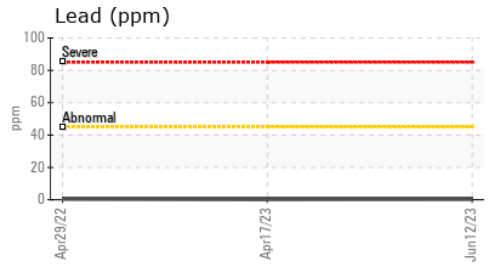
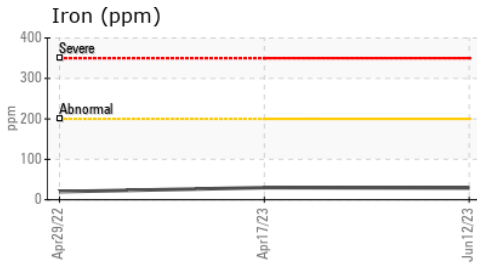


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	42.3	42.6	51.1

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 - 720 - Lafleche - Landfill
Sample No. : GFL0056417 **Received** : 15 Jun 2023 17125 Lafleche Road,
Lab Number : 02564419 **Diagnosed** : 15 Jun 2023 Moose Creek, ON
Unique Number : 5593460 **Diagnostician** : Kevin Marson CA K0C 1W0
Test Package : MOB 1

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.

Contact: Charles Bergeron
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 T: (613)538-4853
 F: