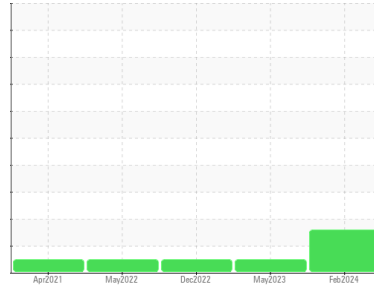




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
731029
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a moderate concentration of water present in the oil. Test for glycol is negative.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0100720	GFL0079558	GFL0041620
Sample Date	Client Info		07 Feb 2024	04 May 2023	13 Dec 2022
Machine Age	kms	Client Info	118286	4979	3096
Oil Age	kms	Client Info	0	1122	1122
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	22	11	13
Chromium	ppm	ASTM D5185(m) >4	2	<1	2
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	<1	<1
Silver	ppm	ASTM D5185(m) >3	<1	0	0
Aluminum	ppm	ASTM D5185(m) >9	8	2	3
Lead	ppm	ASTM D5185(m) >30	3	1	7
Copper	ppm	ASTM D5185(m) >35	4	<1	1
Tin	ppm	ASTM D5185(m) >4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	0	0	<1
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) 0	30	6	6
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 60	66	53	56
Manganese	ppm	ASTM D5185(m) 0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m) 1010	534	554	623
Calcium	ppm	ASTM D5185(m) 1070	1661	1619	1682
Phosphorus	ppm	ASTM D5185(m) 1150	909	738	814
Zinc	ppm	ASTM D5185(m) 1270	1056	920	975
Sulfur	ppm	ASTM D5185(m) 2060	2604	2058	2098
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	7	4	6
Sodium	ppm	ASTM D5185(m)	6	3	3
Potassium	ppm	ASTM D5185(m) >20	12	<1	<1
Water	%	ASTM D6304* >0.1	▲ 0.115	---	---
ppm Water	ppm	ASTM D6304* >1000	▲ 1151	---	---
Glycol	%	ASTM D7922*	0.0	---	---

INFRA-RED

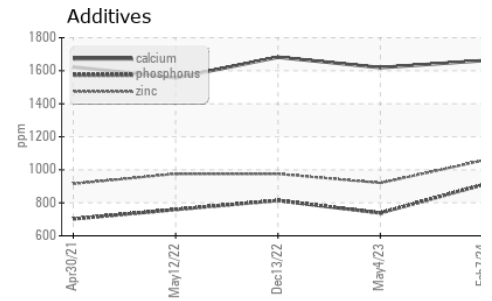
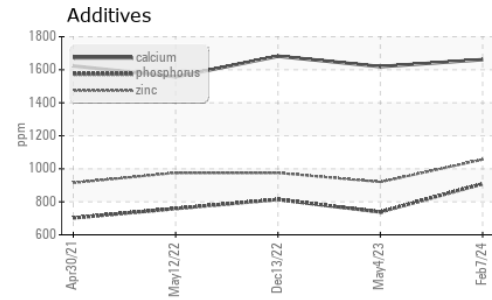
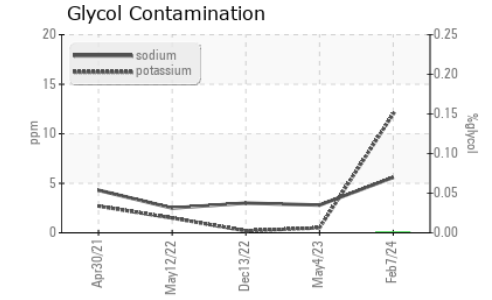
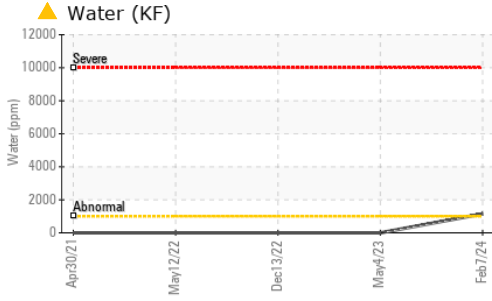
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0.2	0	0
Nitration	Abs/cm	ASTM D7624* >20	11.8	11.9	12.9
Sulfation	Abs/.1mm	ASTM D7415* >30	24.8	24.1	27.3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	20.8	19.7	21.9



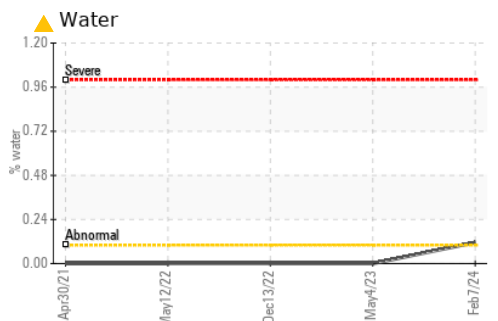
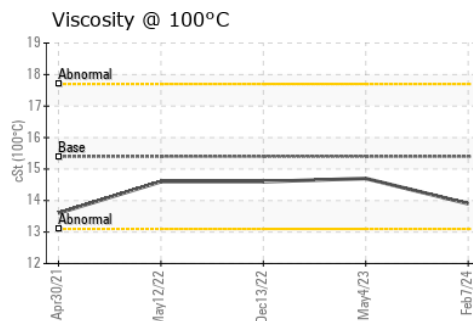
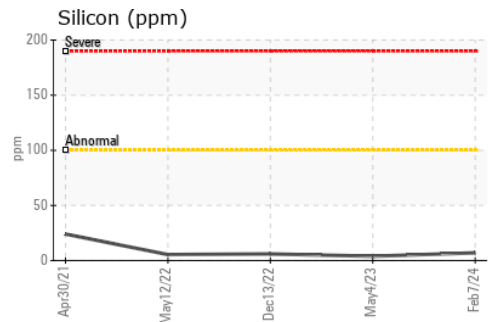
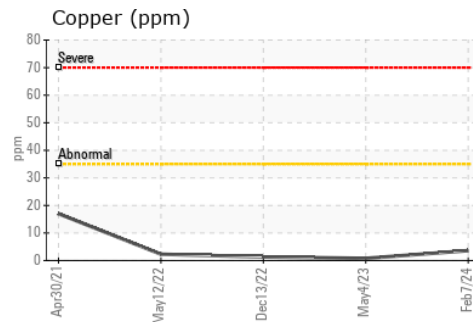
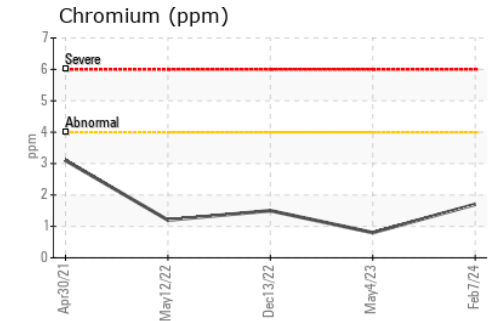
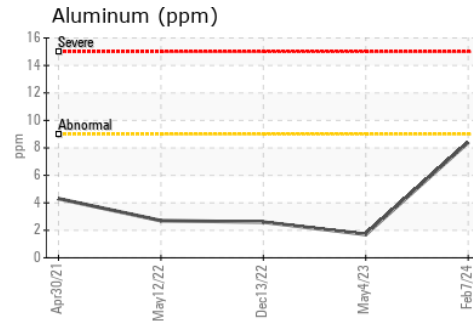
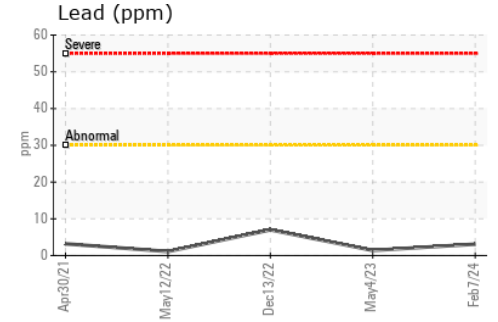
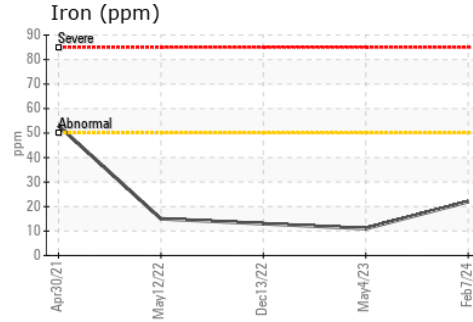
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	.2%	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	14.7	14.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100720
Lab Number : 02616177
Unique Number : 5733287
Test Package : MOB 1 (Additional Tests: Glycol, KF)

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 C/O Metro Truck Niagara Inc., 411 Glendale Avenue
 St. Catharines, ON
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 kbremner@gflenv.com
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 F:

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.