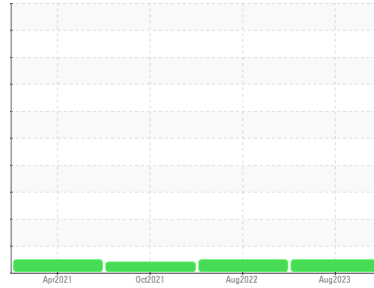




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
731023
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0079575	GFL0041665	GFL0031944
Sample Date	Client Info		08 Aug 2023	10 Aug 2022	27 Oct 2021
Machine Age	kms	Client Info	99116	2268	2268
Oil Age	kms	Client Info	0	2268	0
Oil Changed	Client Info		Changed	N/A	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	28	23	28
Chromium	ppm	ASTM D5185(m)	>4	4	2	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	1
Titanium	ppm	ASTM D5185(m)		<1	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	2	2	4
Lead	ppm	ASTM D5185(m)	>30	1	1	4
Copper	ppm	ASTM D5185(m)	>35	3	2	5
Tin	ppm	ASTM D5185(m)	>4	1	<1	2
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	8	10	5
Barium	ppm	ASTM D5185(m)	0	2	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	54	58	66
Manganese	ppm	ASTM D5185(m)	0	4	1	2
Magnesium	ppm	ASTM D5185(m)	1010	556	625	650
Calcium	ppm	ASTM D5185(m)	1070	1534	1678	1788
Phosphorus	ppm	ASTM D5185(m)	1150	718	805	906
Zinc	ppm	ASTM D5185(m)	1270	918	1006	1112
Sulfur	ppm	ASTM D5185(m)	2060	1984	2154	2204
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>+100	14	5	9
Sodium	ppm	ASTM D5185(m)		4	4	3
Potassium	ppm	ASTM D5185(m)	>20	10	<1	1
Glycol	%	ASTM D7922*		0.0	---	---

INFRA-RED

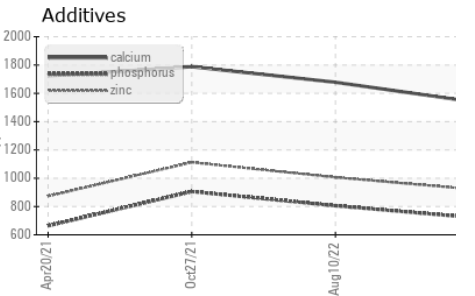
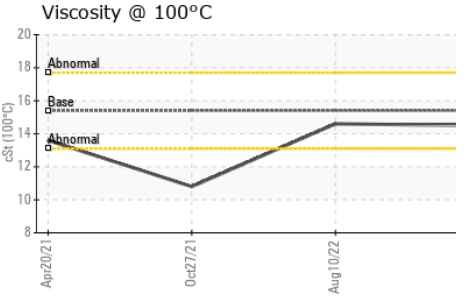
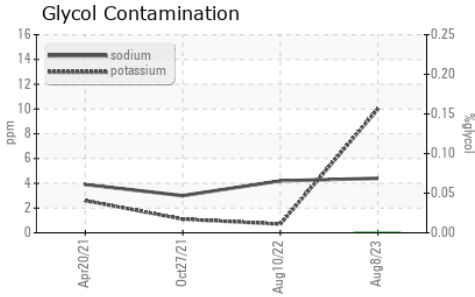
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.1	11.0	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.5	25.9	26.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.5	21.0	20.0



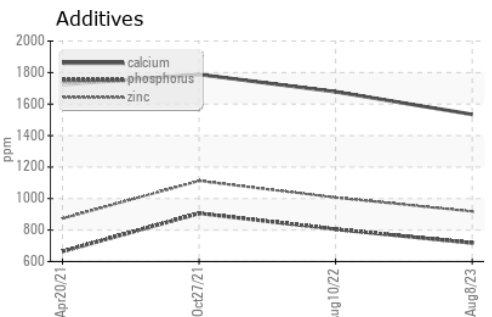
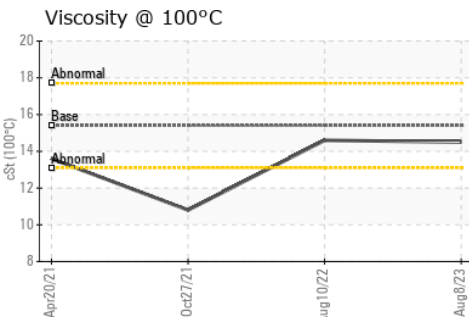
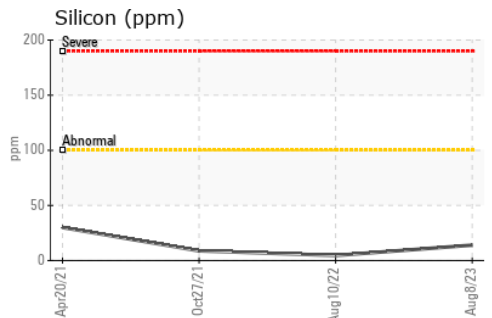
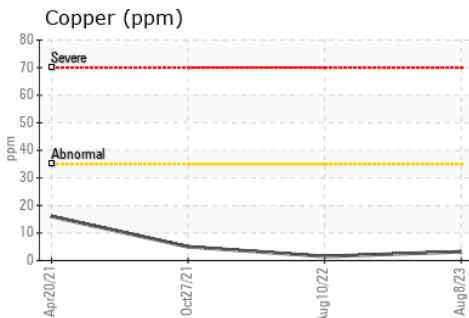
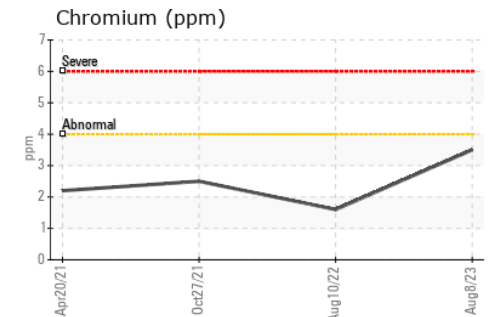
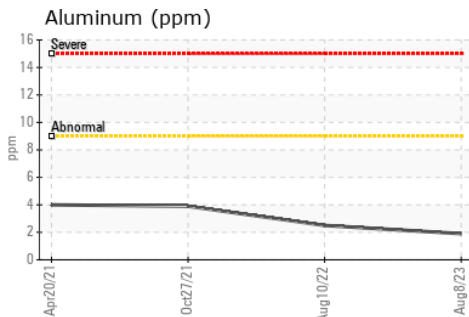
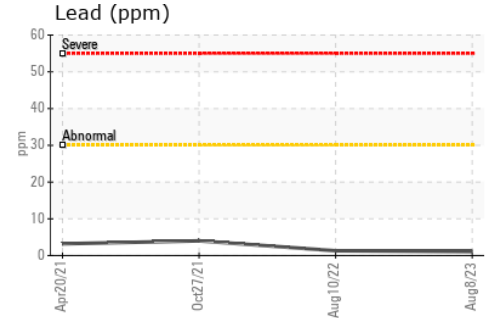
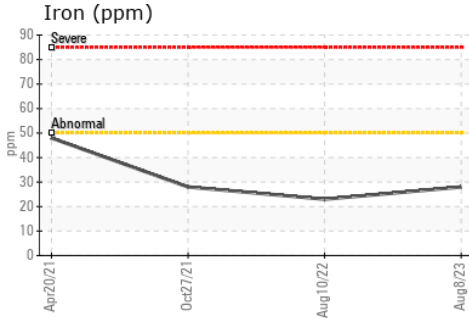
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.5	14.6 ▲ 10.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 277 - Niagara Regional**
Sample No. : GFL0079575 **Received** : 14 Aug 2023 **C/O Metro Truck Niagara Inc., 411 Glendale Avenue**
Lab Number : 02575570 **Diagnosed** : 14 Aug 2023 **St. Catharines, ON**
Unique Number : 5620621 **Diagnostician** : Kevin Marson **CA L2P 3Y1**
Test Package : MOB 1 (Additional Tests: Glycol) **Contact: Kelly Bremner**
kbremner@gflenv.com

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.

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