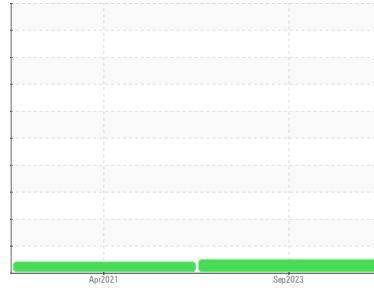




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
910079
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0079571	GFL0021459	---
Sample Date	Client Info		15 Sep 2023	05 Apr 2021	---
Machine Age	kms	Client Info	37812	7555	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	N/A	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	0.3	---
Glycol	WC Method		NEG	0.0	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >120	9	28	---
Chromium	ppm	ASTM D5185(m) >20	<1	1	---
Nickel	ppm	ASTM D5185(m) >5	1	10	---
Titanium	ppm	ASTM D5185(m) >2	<1	<1	---
Silver	ppm	ASTM D5185(m) >2	<1	1	---
Aluminum	ppm	ASTM D5185(m) >20	1	2	---
Lead	ppm	ASTM D5185(m) >40	<1	2	---
Copper	ppm	ASTM D5185(m) >330	1	41	---
Tin	ppm	ASTM D5185(m) >15	<1	3	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	88	39	---
Barium	ppm	ASTM D5185(m) 0	0	<1	---
Molybdenum	ppm	ASTM D5185(m) 60	62	39	---
Manganese	ppm	ASTM D5185(m) 0	<1	4	---
Magnesium	ppm	ASTM D5185(m) 1010	1022	483	---
Calcium	ppm	ASTM D5185(m) 1070	1021	1584	---
Phosphorus	ppm	ASTM D5185(m) 1150	1050	893	---
Zinc	ppm	ASTM D5185(m) 1270	1161	1122	---
Sulfur	ppm	ASTM D5185(m) 2060	2776	2494	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	4	76	---
Sodium	ppm	ASTM D5185(m)	2	3	---
Potassium	ppm	ASTM D5185(m) >20	<1	8	---

INFRA-RED

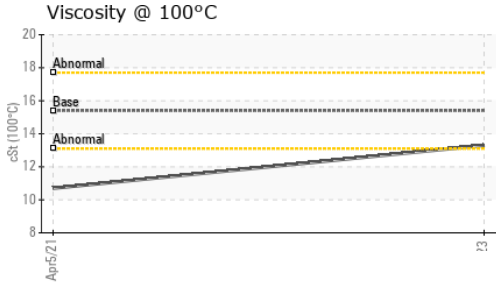
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >4	0	0.1	---
Nitration	Abs/cm	ASTM D7624* >20	6.6	7.0	---
Sulfation	Abs/.1mm	ASTM D7415* >30	19.2	24.1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	14.4	20.6	---



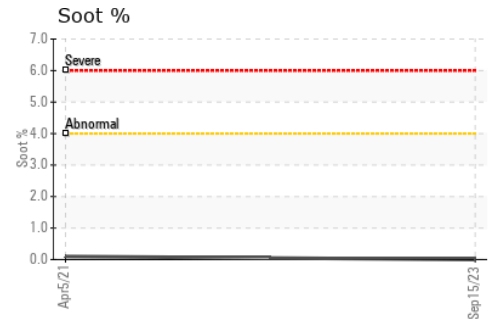
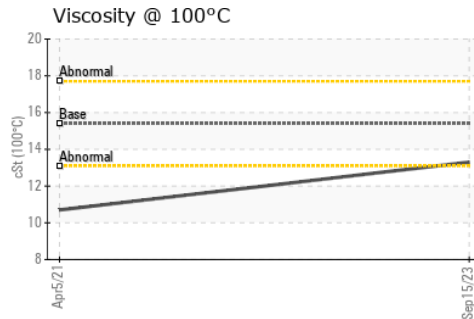
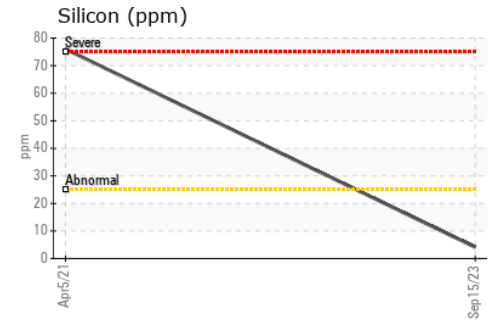
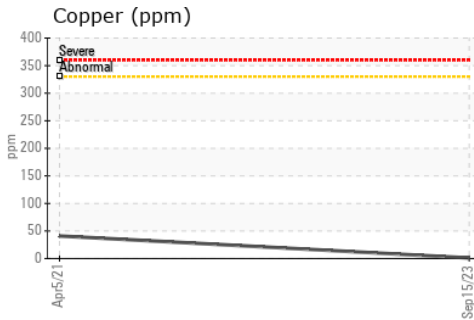
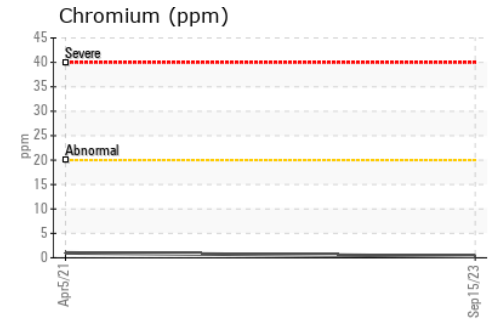
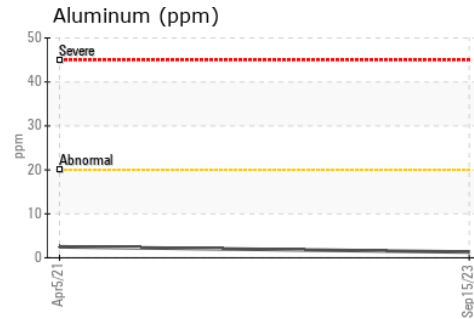
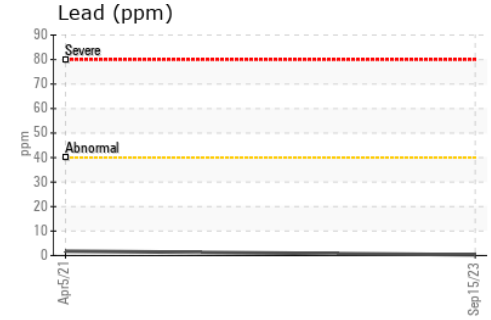
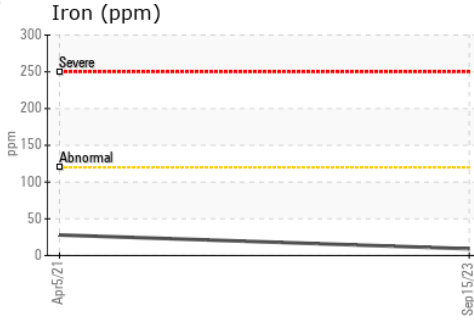
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	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	13.3	▲ 10.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 277 - Niagara Regional**
Sample No. : GFL0079571 **Received** : 19 Sep 2023 **C/O Metro Truck Niagara Inc., 411 Glendale Avenue**
Lab Number : 02583503 **Diagnosed** : 19 Sep 2023 **St. Catharines, ON**
Unique Number : 5644568 **Diagnostician** : Wes Davis **CA L2P 3Y1**
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.

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