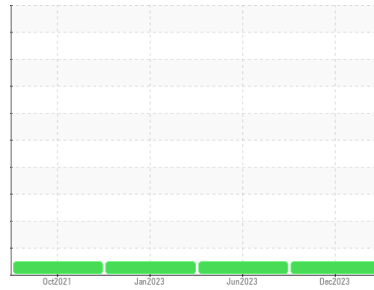




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
831015
 Component
Natural Gas Engine
 Fluid
CASTROL 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		GFL0100757	GFL0079581	GFL0041667
Sample Date	Client Info		05 Dec 2023	07 Jun 2023	09 Jan 2023
Machine Age	kms	Client Info	80239	26650	26650
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

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)	>50	16	11	27
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	2	2	3
Lead	ppm	ASTM D5185(m)	>30	5	<1	2
Copper	ppm	ASTM D5185(m)	>35	1	1	5
Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
Antimony	ppm	ASTM D5185(m)		0	<1	<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)		6	7	5
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		56	53	60
Manganese	ppm	ASTM D5185(m)		<1	<1	2
Magnesium	ppm	ASTM D5185(m)		586	548	551
Calcium	ppm	ASTM D5185(m)		1709	1600	1680
Phosphorus	ppm	ASTM D5185(m)		740	714	770
Zinc	ppm	ASTM D5185(m)		961	897	952
Sulfur	ppm	ASTM D5185(m)		2006	2020	2102
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>+100	4	3	6
Sodium	ppm	ASTM D5185(m)	>406	3	2	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1

INFRA-RED

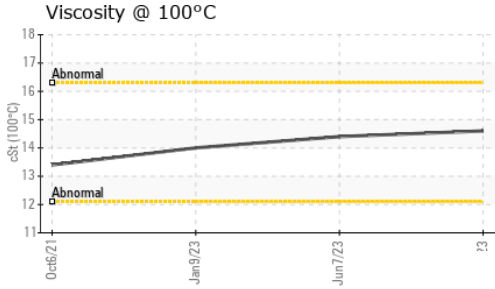
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.7	11.3	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.2	22.8	27.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.0	19.2	21.7



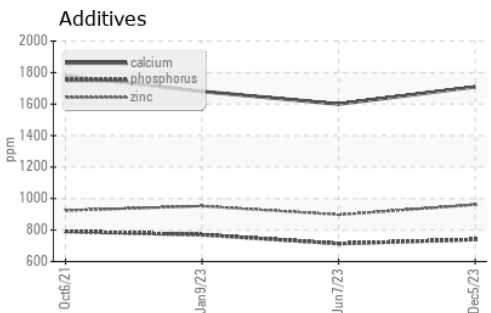
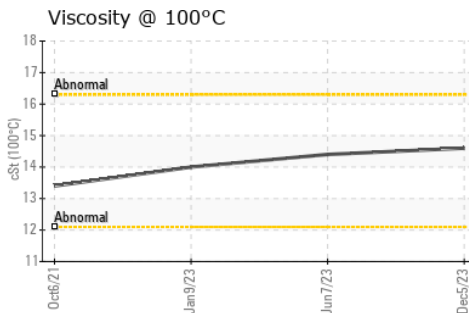
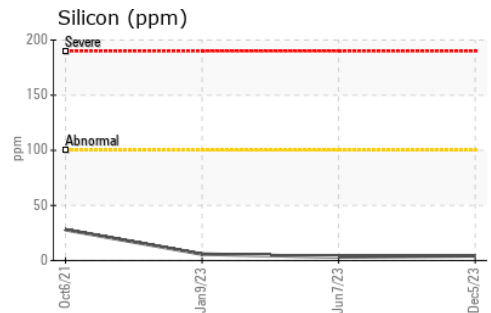
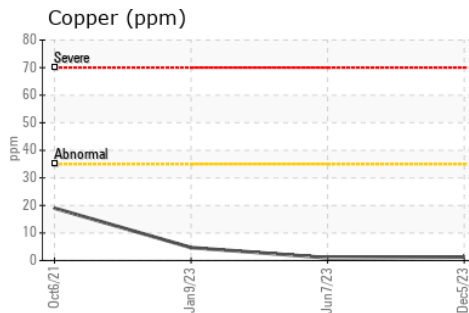
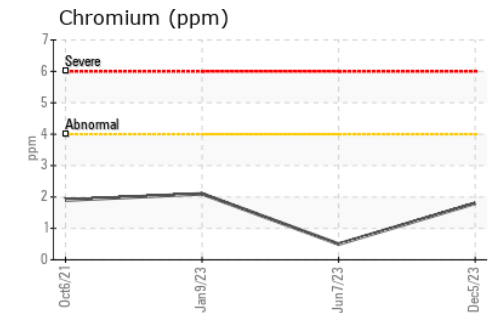
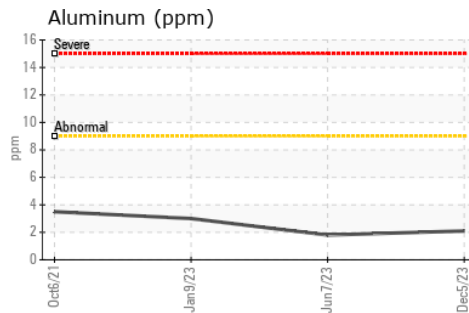
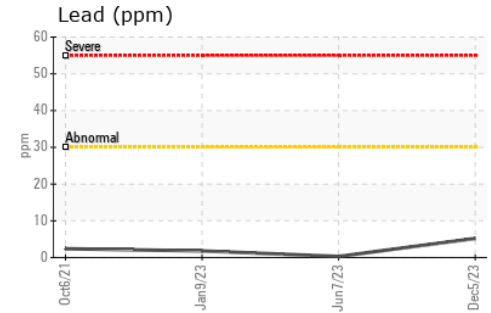
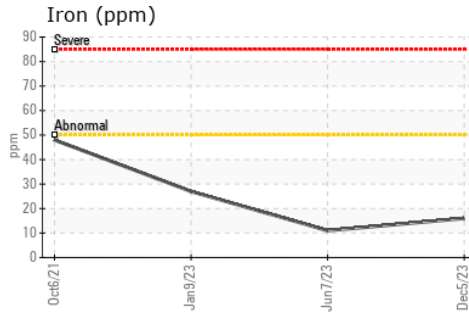
OIL ANALYSIS REPORT



VISUAL	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)	14.6	14.4	14.0

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 277 - Niagara Regional**
Sample No. : GFL0100757 **Received** : 11 Dec 2023 C/O Metro Truck Niagara Inc., 411 Glendale Avenue
Lab Number : **02602103** **Diagnosed** : 11 Dec 2023 St. Catharines, ON
Unique Number : 5695188 **Diagnostician** : Kevin Marson CA L2P 3Y1
Test Package : MOB 1 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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