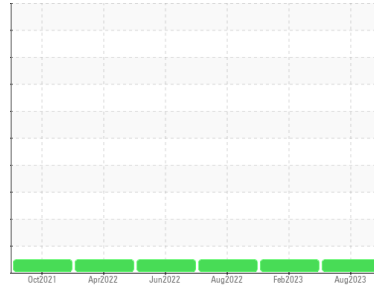




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
731044
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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	GFL0085853	GFL0064283	GFL0054861
Sample Date	Client Info	15 Aug 2023	16 Feb 2023	24 Aug 2022
Machine Age	hrs	5077	4046	2950
Oil Age	hrs	1200	1200	1200
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	---	0.0

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >50	12	12	12
Chromium	ppm	ASTM D5185(m) >4	2	2	1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	<1	<1	<1
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >9	2	2	2
Lead	ppm	ASTM D5185(m) >30	3	2	<1
Copper	ppm	ASTM D5185(m) >35	1	1	1
Tin	ppm	ASTM D5185(m) >4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	0	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) 50	7	5	8
Barium	ppm	ASTM D5185(m) 5	0	0	0
Molybdenum	ppm	ASTM D5185(m) 50	57	53	56
Manganese	ppm	ASTM D5185(m) 0	<1	<1	1
Magnesium	ppm	ASTM D5185(m) 560	606	571	587
Calcium	ppm	ASTM D5185(m) 1510	1643	1668	1610
Phosphorus	ppm	ASTM D5185(m) 780	762	752	705
Zinc	ppm	ASTM D5185(m) 870	943	940	948
Sulfur	ppm	ASTM D5185(m) 2040	2057	2058	2160
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >+100	4	4	5
Sodium	ppm	ASTM D5185(m)	9	9	8
Potassium	ppm	ASTM D5185(m) >20	<1	<1	8

INFRA-RED

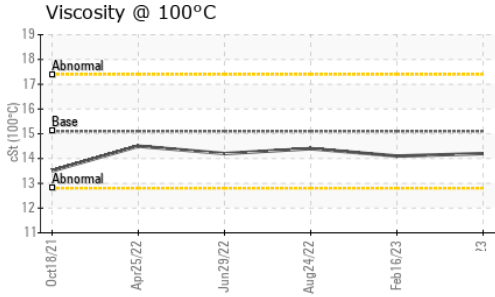
method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.3	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.1	22.1

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.0	17.8



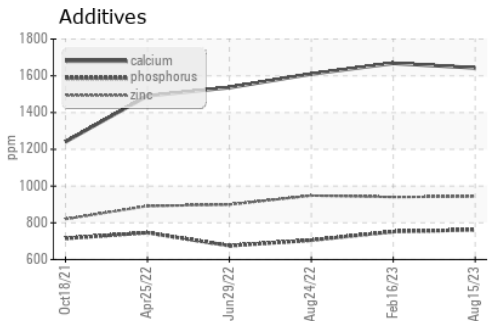
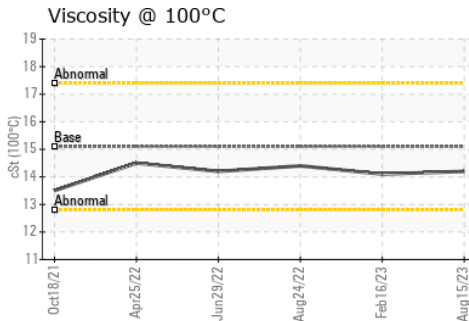
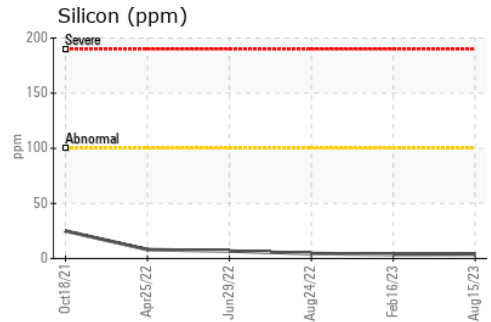
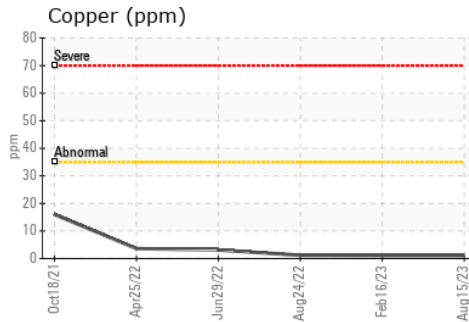
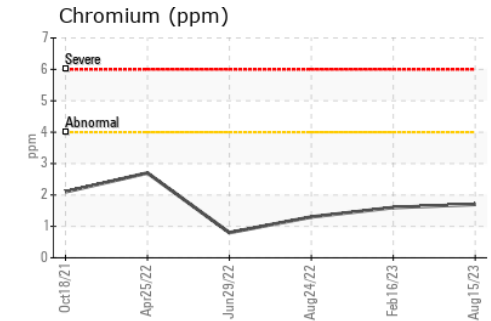
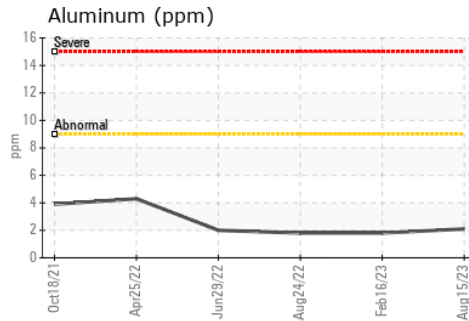
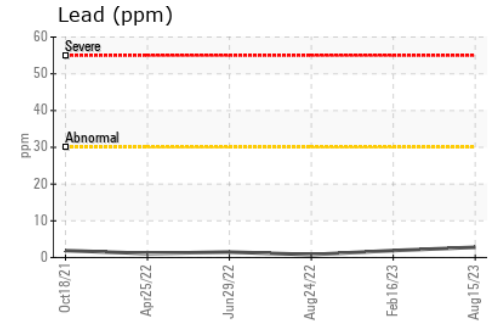
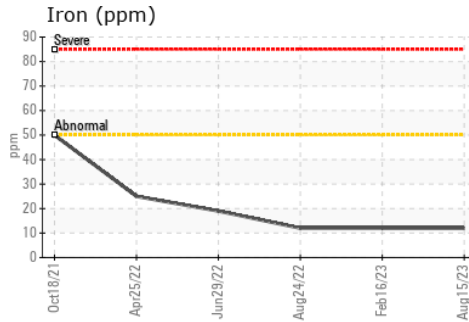
OIL ANALYSIS REPORT



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)	15.1	14.2	14.1	14.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**
Sample No. : GFL0085853 **Received** : 17 Aug 2023 **560 Seaman Street**
Lab Number : **02576395** **Diagnosed** : 17 Aug 2023 **Stoney Creek, ON**
Unique Number : 5629455 **Diagnostician** : Wes Davis **CA L8E 3X7**
Test Package : MOB 1 **Contact:** Fred Carleton

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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