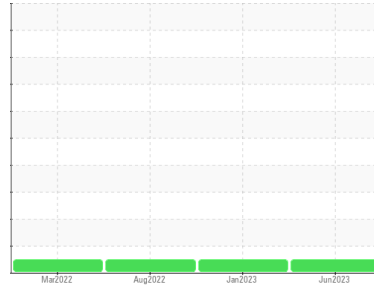




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
731075

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

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	history 1	history 2
Sample Number	Client Info		GFL0085871	GFL0064289	GFL0054863
Sample Date	Client Info		29 Jun 2023	17 Jan 2023	05 Aug 2022
Machine Age	hrs	Client Info	4372	3278	22858
Oil Age	hrs	Client Info	1200	1000	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185(m)	>50	12	17	36
Chromium	ppm	ASTM D5185(m)	>4	1	2	3
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	3
Lead	ppm	ASTM D5185(m)	>30	3	3	12
Copper	ppm	ASTM D5185(m)	>35	1	3	13
Tin	ppm	ASTM D5185(m)	>4	<1	1	3
Antimony	ppm	ASTM D5185(m)		0	<1	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	history 1	history 2	
Boron	ppm	ASTM D5185(m)	50	15	7	9
Barium	ppm	ASTM D5185(m)	5	0	0	2
Molybdenum	ppm	ASTM D5185(m)	50	56	56	41
Manganese	ppm	ASTM D5185(m)	0	<1	1	6
Magnesium	ppm	ASTM D5185(m)	560	619	625	722
Calcium	ppm	ASTM D5185(m)	1510	1556	1768	1707
Phosphorus	ppm	ASTM D5185(m)	780	778	777	785
Zinc	ppm	ASTM D5185(m)	870	947	984	981
Sulfur	ppm	ASTM D5185(m)	2040	2067	2219	2382
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185(m)	>+100	4	12	14
Sodium	ppm	ASTM D5185(m)		7	9	7
Potassium	ppm	ASTM D5185(m)	>20	1	0	4

INFRA-RED

	method	limit/base	current	history 1	history 2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.8	13.0	13.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.9	25.9	27.7

FLUID DEGRADATION

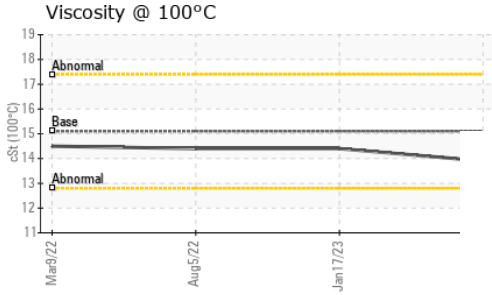
	method	limit/base	current	history 1	history 2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.6	19.8	21.3

VISUAL

	method	limit/base	current	history 1	history 2	
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

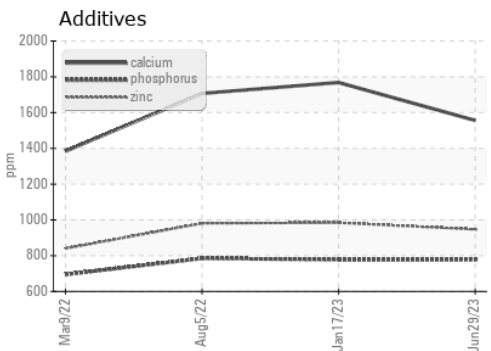
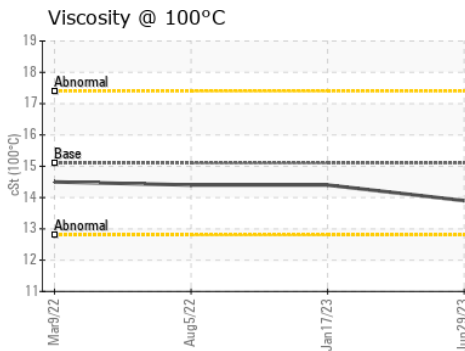
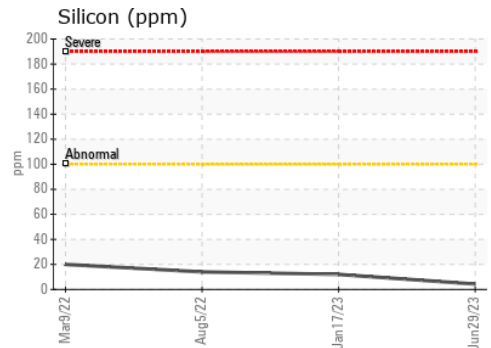
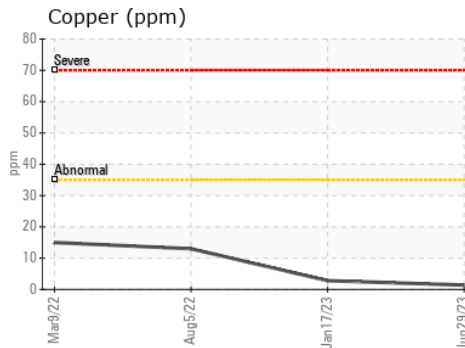
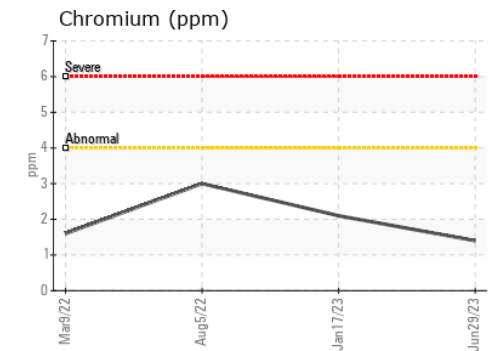
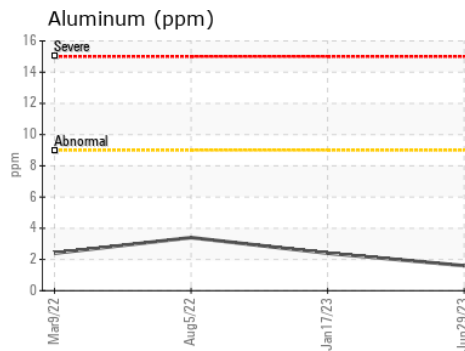
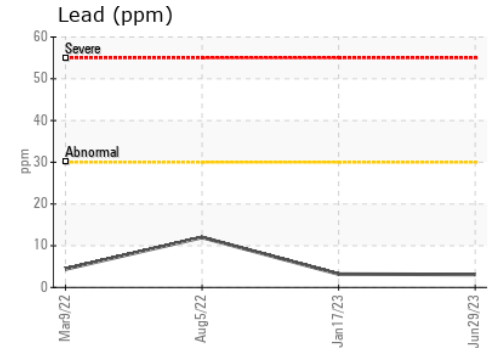
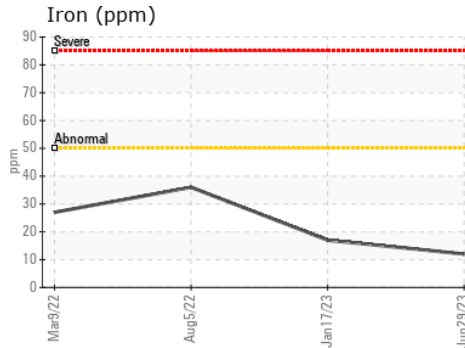


OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	13.9	14.4	14.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**
Sample No. : GFL0085871 **Received** : 04 Jul 2023
Lab Number : **02567671** **Diagnosed** : 04 Jul 2023
Unique Number : 5604717 **Diagnostician** : Wes Davis
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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