



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
8277
Component
Natural Gas Engine
Fluid
NOT GIVEN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113175	GFL0093617	GFL0022722
Sample Date		Client Info		27 Feb 2024	30 Aug 2023	23 Apr 2021
Machine Age	kms	Client Info		165338	157406	121646
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	19	9	25
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	3
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	3	2	3
Lead	ppm	ASTM D5185(m)	>30	12	1	2
Copper	ppm	ASTM D5185(m)	>35	<1	<1	8
Tin	ppm	ASTM D5185(m)	>4	1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

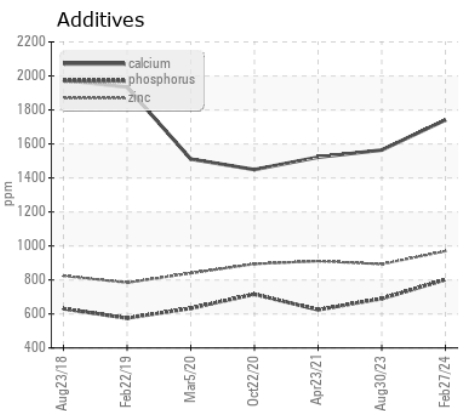
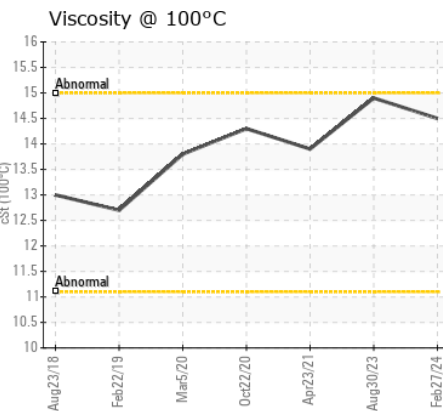
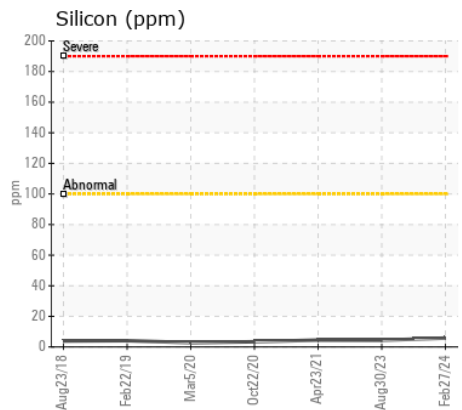
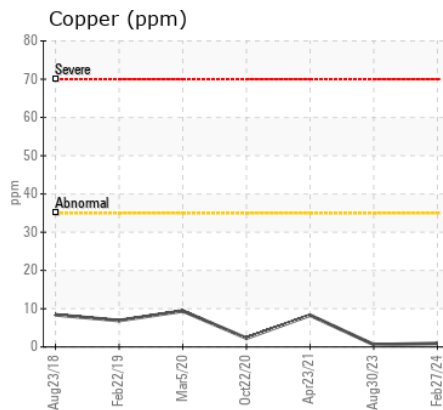
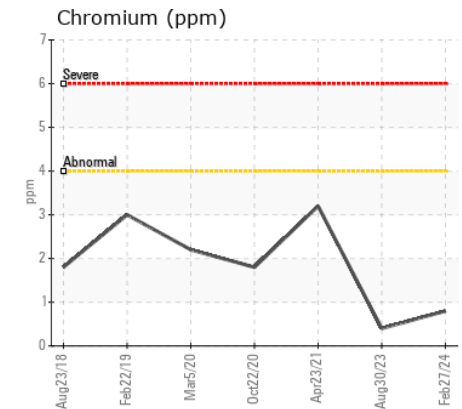
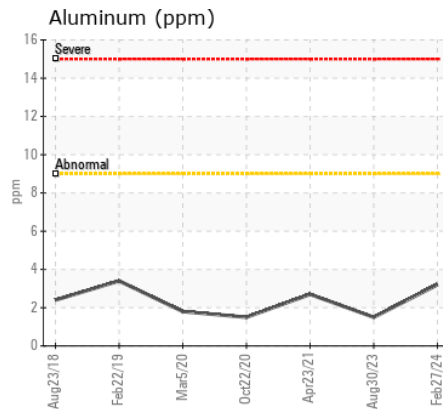
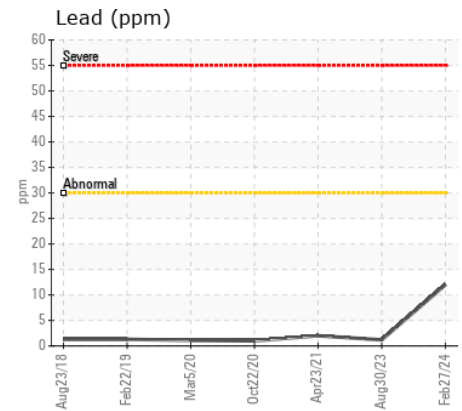
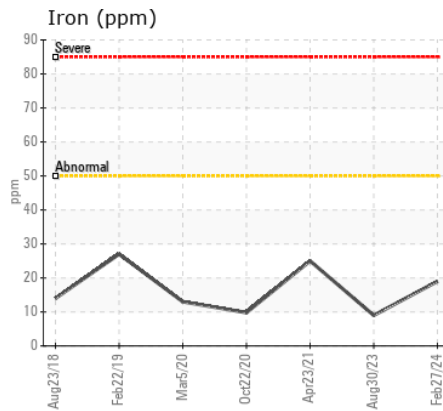
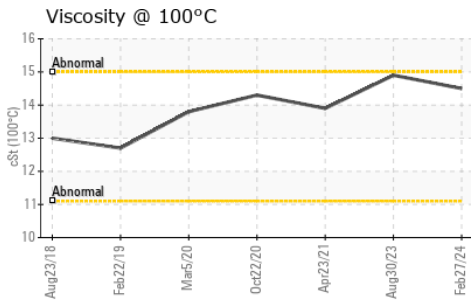
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	6	4	4
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.7	11.7	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.5	24.9	25.6
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		11	8	10
Boron	ppm	ASTM D5185(m)		8	9	5
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		57	50	53
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		620	535	531
Calcium	ppm	ASTM D5185(m)		1741	1564	1522
Phosphorus	ppm	ASTM D5185(m)		802	690	624
Zinc	ppm	ASTM D5185(m)		969	893	911
Sulfur	ppm	ASTM D5185(m)		2143	1909	2002
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.2	19.6	19.4
Visc @ 100°C	cSt	ASTM D7279(m)		14.5	14.9	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113175
Lab Number : 02618873
Unique Number : 5735983
Test Package : MOB 1
Received : 29 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Wes Davis

GFL Environmental - 225 - COT(D2)
 20 Brydon Drive
 Etobicoke, ON
 CA M9W 5R6
 Contact: Rick Philip
 rphilip@gflenv.com
 T: (416)745-8080
 F:

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.