



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GFL218
Machine Id
833038
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		GFL0120090	GFL0116351	GFL0111131
Sample Date		Client Info		08 May 2024	05 Apr 2024	28 Jan 2024
Machine Age	hrs	Client Info		18870	16961	12963
Oil Age	hrs	Client Info		0	12963	7492
Filter Age	hrs	Client Info		0	12963	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	8	8	13
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	1	2	2
Lead	ppm	ASTM D5185(m)	>30	0	0	1
Copper	ppm	ASTM D5185(m)	>35	<1	2	4
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

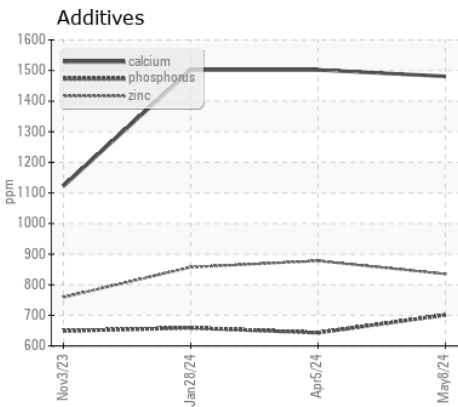
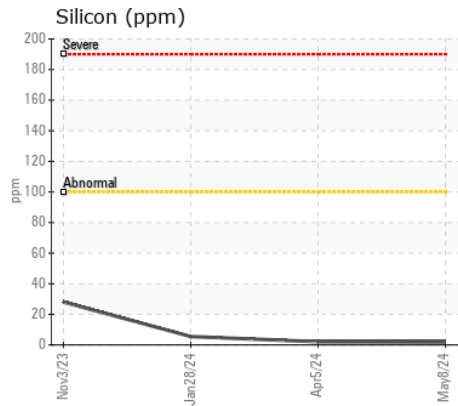
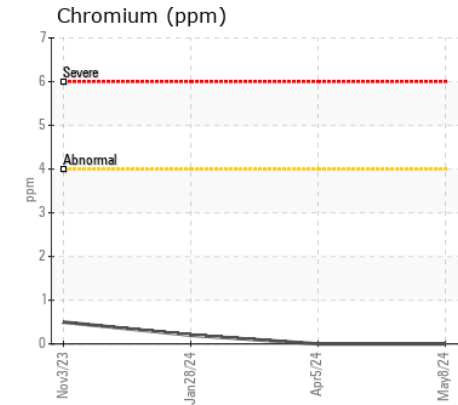
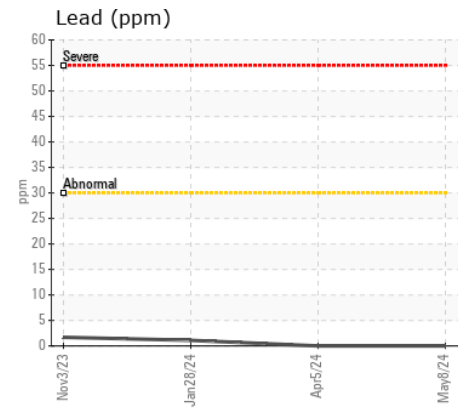
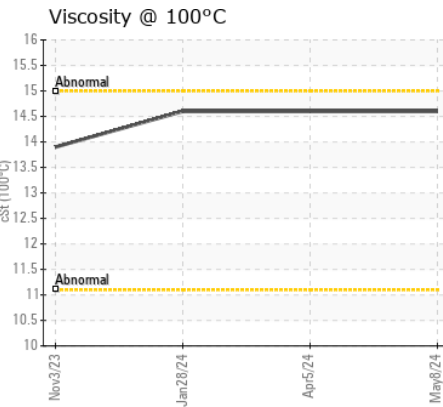
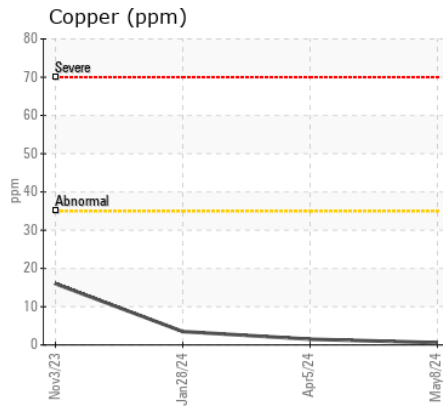
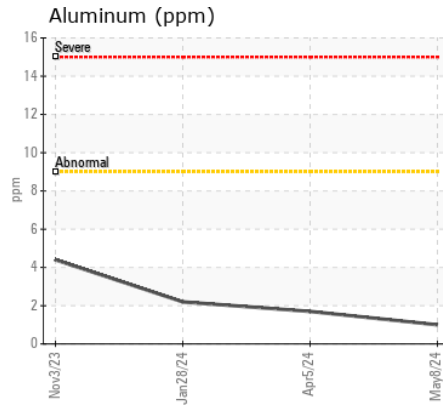
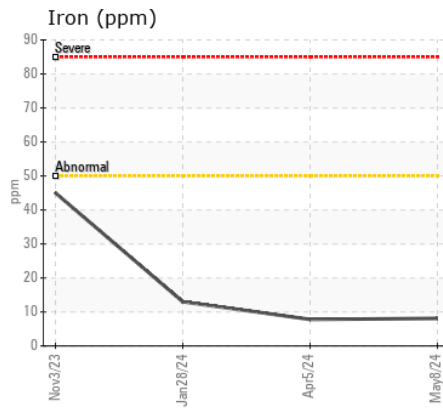
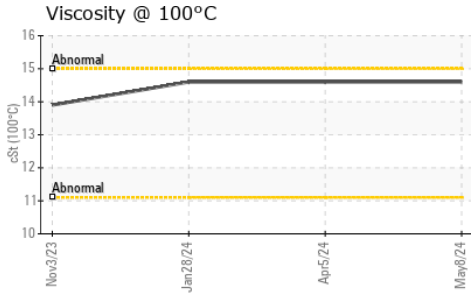
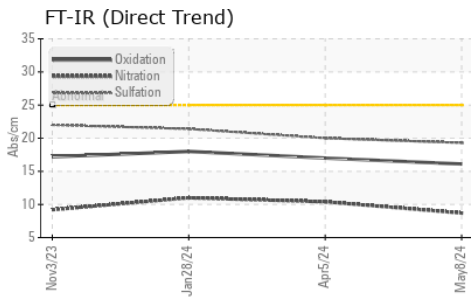
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	2	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.7	10.4	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	20.0	21.4
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)		6	6	6
Boron	ppm	ASTM D5185(m)		21	10	7
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		48	50	54
Manganese	ppm	ASTM D5185(m)		<1	0	1
Magnesium	ppm	ASTM D5185(m)		525	540	531
Calcium	ppm	ASTM D5185(m)		1481	1502	1502
Phosphorus	ppm	ASTM D5185(m)		701	643	659
Zinc	ppm	ASTM D5185(m)		835	878	857
Sulfur	ppm	ASTM D5185(m)		1906	1927	2072
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	17.0	18.0
Visc @ 100°C	cSt	ASTM D7279(m)		14.6	14.6	14.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0120090
Lab Number : 02635975
Unique Number : 5785137
Test Package : MOB 1

GFL Environmental - 225 - COT(D2)
 20 Brydon Drive
 Etobicoke, ON
 CA M9W 5R6
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 T: (416)745-8080
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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.