



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GFL218
Machine Id
833058
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		GFL0124662	GFL0104515	GFL0093621
Sample Date		Client Info		12 Jun 2024	13 Dec 2023	18 Sep 2023
Machine Age	kms	Client Info		13559	8141	4927
Oil Age	kms	Client Info		4927	4927	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	8	12	41
Chromium	ppm	ASTM D5185(m)	>4	<1	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	<1	<1
Aluminum	ppm	ASTM D5185(m)	>9	2	2	4
Lead	ppm	ASTM D5185(m)	>30	0	<1	1
Copper	ppm	ASTM D5185(m)	>35	1	3	17
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

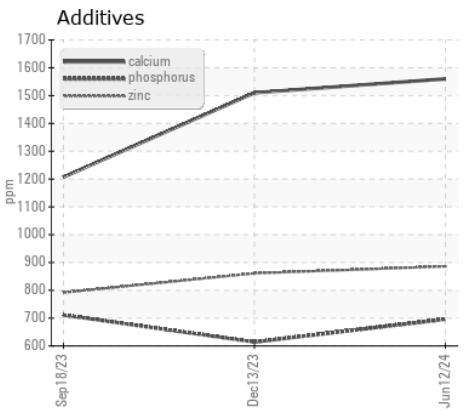
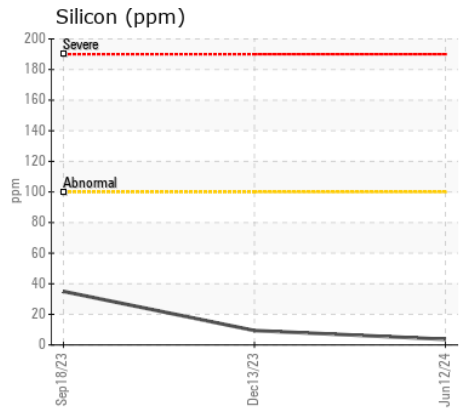
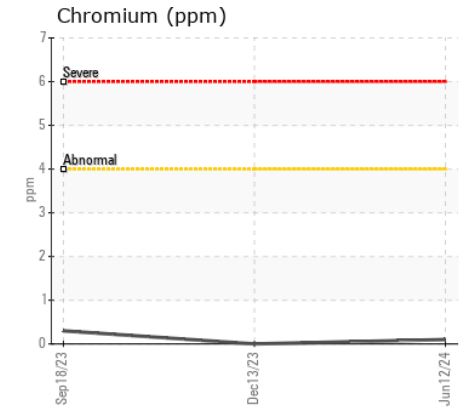
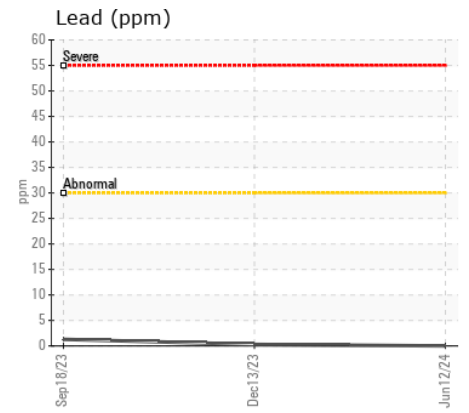
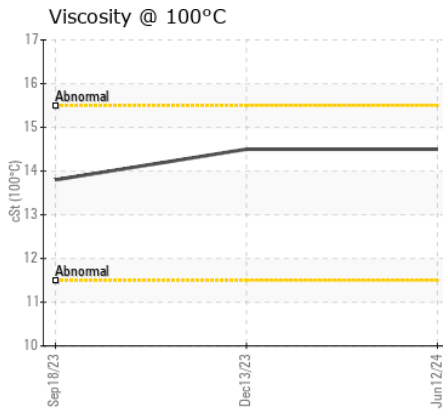
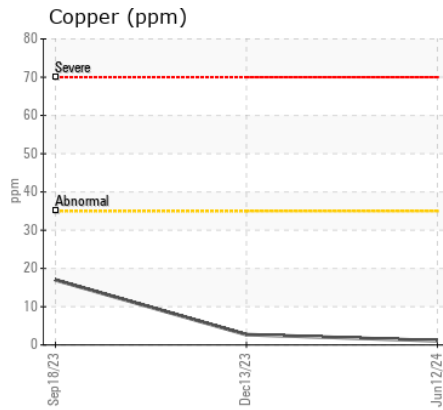
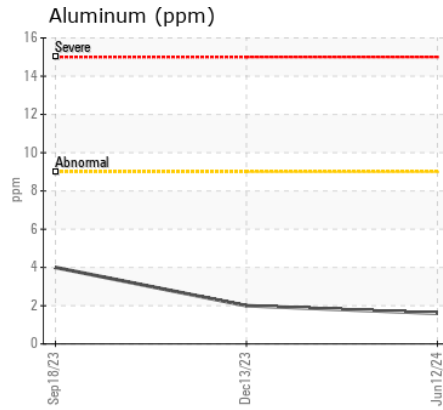
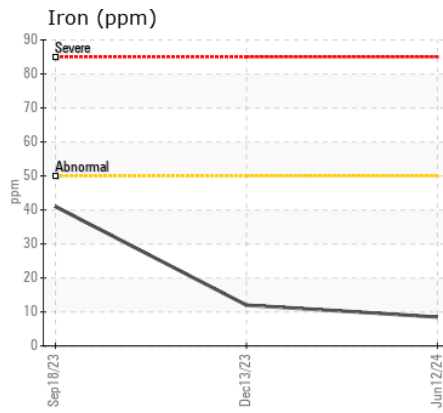
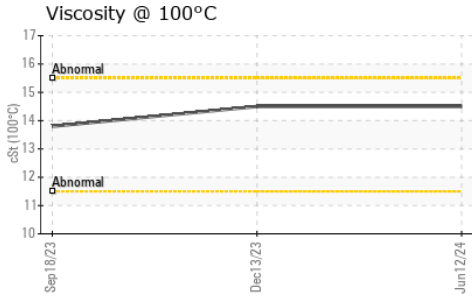
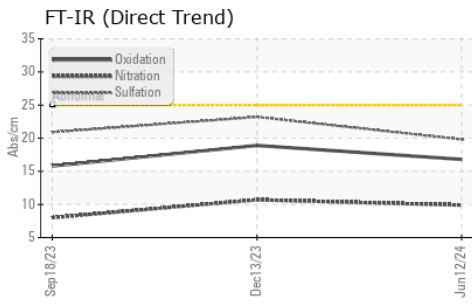
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	4	9	▲ 35
Potassium	ppm	ASTM D5185(m)	>20	<1	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.9	10.7	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	23.2	20.9
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)		7	7	3
Boron	ppm	ASTM D5185(m)		18	9	18
Barium	ppm	ASTM D5185(m)		0	<1	4
Molybdenum	ppm	ASTM D5185(m)		48	56	101
Manganese	ppm	ASTM D5185(m)		<1	1	9
Magnesium	ppm	ASTM D5185(m)		541	520	656
Calcium	ppm	ASTM D5185(m)		1560	1510	1207
Phosphorus	ppm	ASTM D5185(m)		696	614	711
Zinc	ppm	ASTM D5185(m)		886	861	792
Sulfur	ppm	ASTM D5185(m)		1997	1967	2305
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8	18.9	15.8
Visc @ 100°C	cSt	ASTM D7279(m)		14.5	14.5	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0124662
Lab Number : 02642278
Unique Number : 5799817
Test Package : MOB 1

GFL Environmental - 225 - COT(D2)
 20 Brydon Drive
 Etobicoke, ON
 CA M9W 5R6
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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.