



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
352250
 Component
Gasoline Engine
 Fluid
SAE 5W20 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096761	GFL0096835	GFL0096849
Sample Date		Client Info		15 Jun 2024	22 Apr 2024	13 Feb 2024
Machine Age	kms	Client Info		168893	0	158333
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	5000
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	5	11	21
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	1	2	3
Lead	ppm	ASTM D5185(m)	>50	0	0	0
Copper	ppm	ASTM D5185(m)	>155	<1	<1	2
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

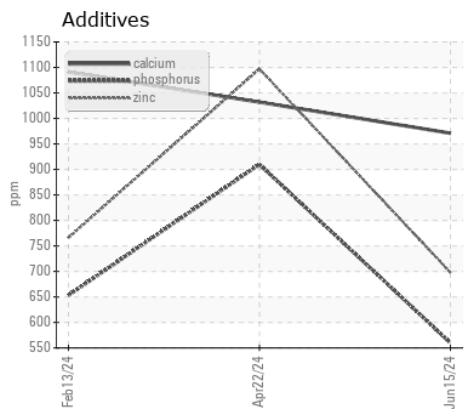
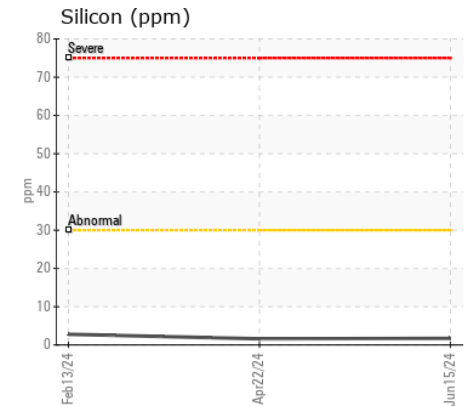
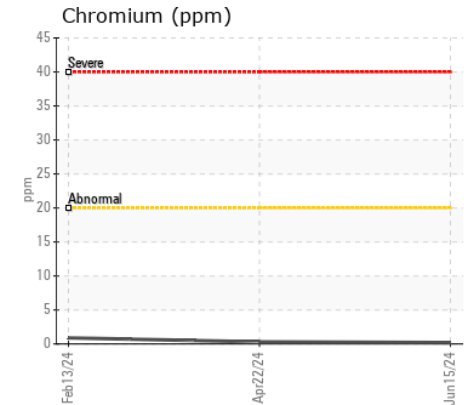
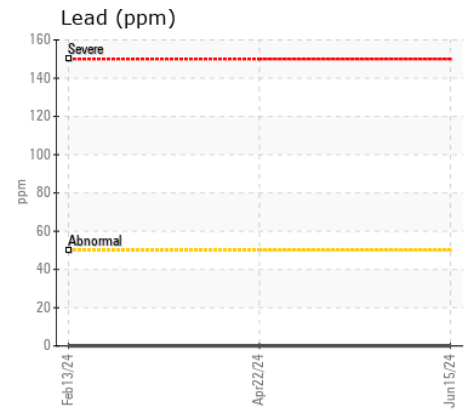
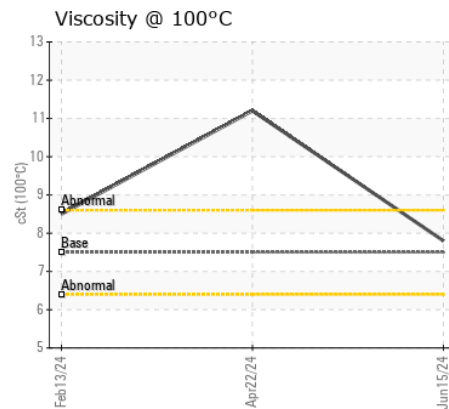
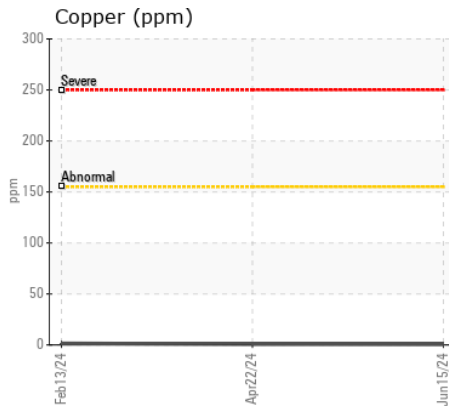
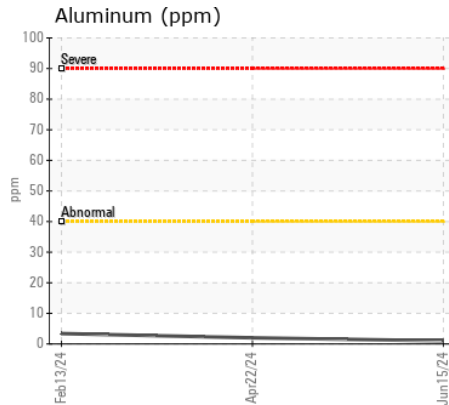
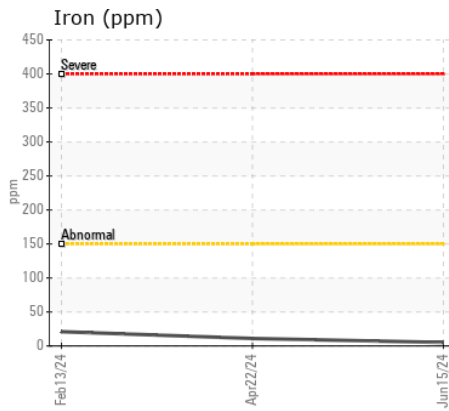
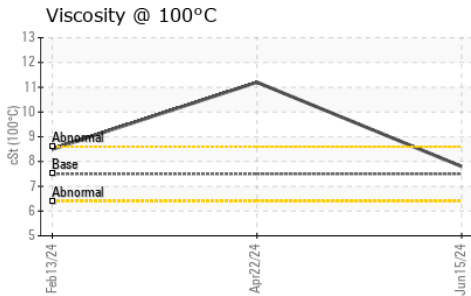
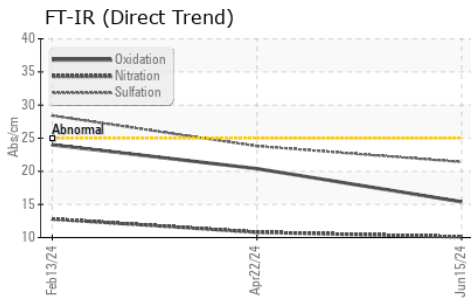
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	1	1
Fuel		WC Method	>4.0	<1.0	▲ 2.7	▲ 2.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.1	10.8	12.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	23.8	28.4
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		11	16	14
Boron	ppm	ASTM D5185(m)		7	2	7
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		58	61	68
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		427	887	496
Calcium	ppm	ASTM D5185(m)		971	1032	1091
Phosphorus	ppm	ASTM D5185(m)		560	910	653
Zinc	ppm	ASTM D5185(m)		698	1097	766
Sulfur	ppm	ASTM D5185(m)		1630	2380	1839
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.4	20.4	24.0
Visc @ 100°C	cSt	ASTM D7279(m)	7.5	7.8	▲ 11.2	▲ 8.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096761
Lab Number : 02644801
Unique Number : 5802340
Test Package : MOB 1 (Additional Tests: Visual)

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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.*