



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
9153
Component
Natural Gas Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112694	GFL0079553	GFL0053125
Sample Date		Client Info		15 May 2024	24 May 2023	27 May 2022
Machine Age	hrs	Client Info		15611	190307	96331
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	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	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	32	40	32
Chromium	ppm	ASTM D5185(m)	>5	1	1	3
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	1
Titanium	ppm	ASTM D5185(m)	>5	0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	10	10	10
Lead	ppm	ASTM D5185(m)	>40	2	4	4
Copper	ppm	ASTM D5185(m)	>150	1	4	6
Tin	ppm	ASTM D5185(m)	>4	<1	2	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

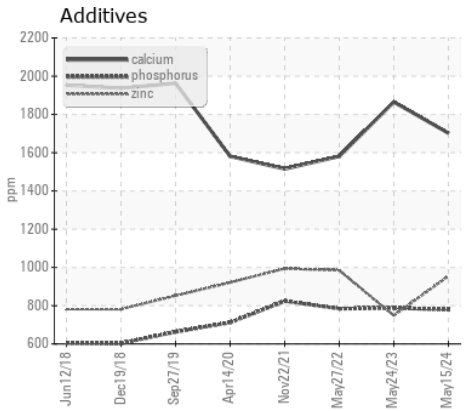
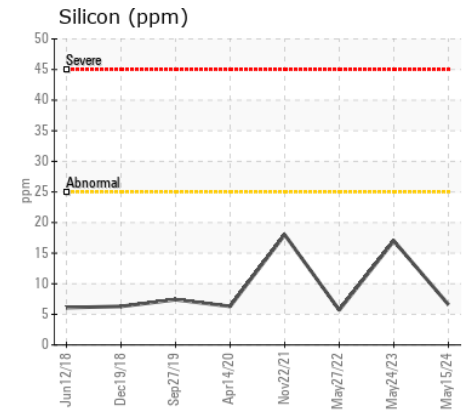
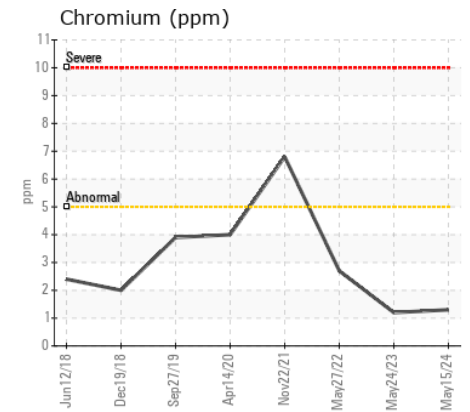
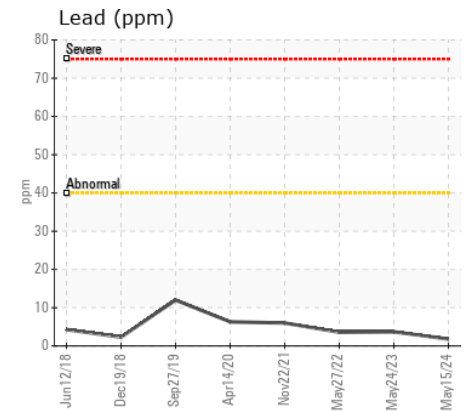
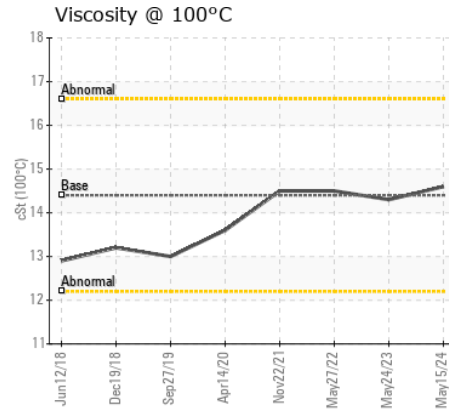
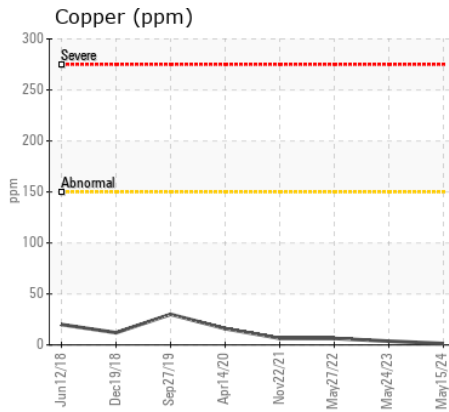
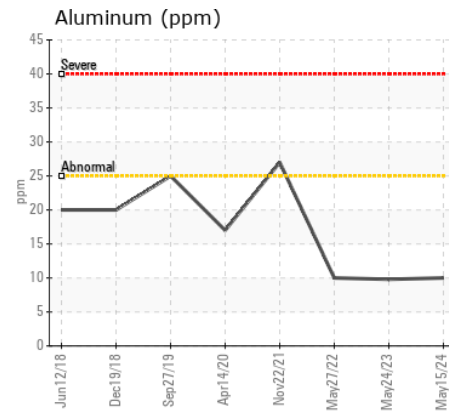
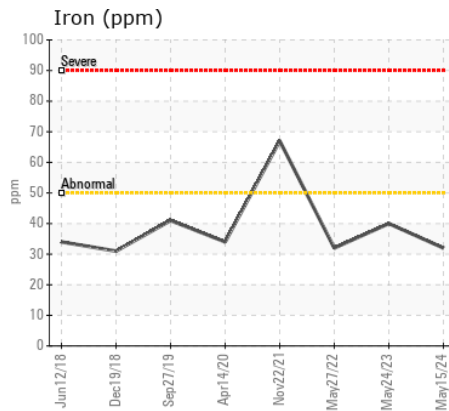
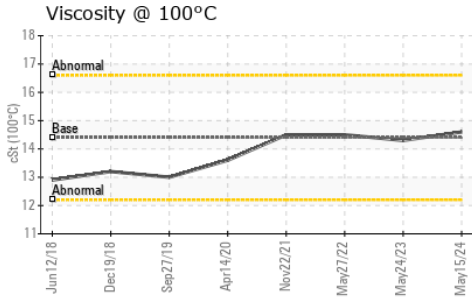
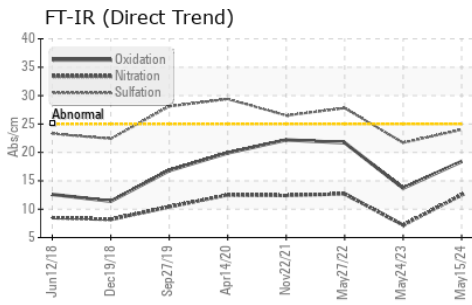
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	17	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	12.5	7.2	12.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	21.7	27.8
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)	>158	9	6	10
Boron	ppm	ASTM D5185(m)	250	9	7	6
Barium	ppm	ASTM D5185(m)	10	<1	2	<1
Molybdenum	ppm	ASTM D5185(m)	100	64	113	57
Manganese	ppm	ASTM D5185(m)		1	3	<1
Magnesium	ppm	ASTM D5185(m)	450	593	131	663
Calcium	ppm	ASTM D5185(m)	3000	1702	1865	1581
Phosphorus	ppm	ASTM D5185(m)	1150	780	788	784
Zinc	ppm	ASTM D5185(m)	1350	954	748	985
Sulfur	ppm	ASTM D5185(m)	4250	2013	2436	2069
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.4	13.7	21.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.6	14.3	14.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112694
Lab Number : 02637608
Unique Number : 5786770
Test Package : MOB 1

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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.