



Machine Id
701117
Component
Natural Gas Engine
Fluid
IRVING 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0051759	GFL0051738	GFL0035114
Sample Date		Client Info		17 May 2024	08 Sep 2022	09 Nov 2021
Machine Age	hrs	Client Info		9120	5105	3664
Oil Age	hrs	Client Info		1200	1200	1200
Filter Age	hrs	Client Info		1200	1200	1200
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	11	17	26
Chromium	ppm	ASTM D5185(m)	>4	1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	1	3	12
Lead	ppm	ASTM D5185(m)	>30	0	<1	8
Copper	ppm	ASTM D5185(m)	>35	<1	2	8
Tin	ppm	ASTM D5185(m)	>4	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

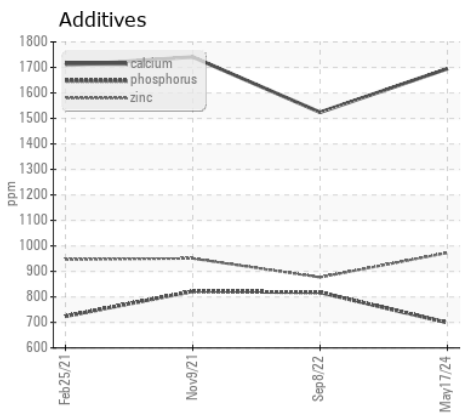
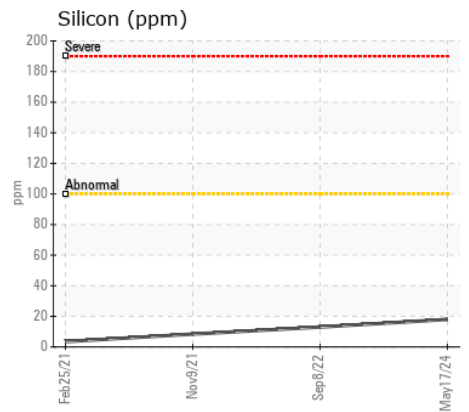
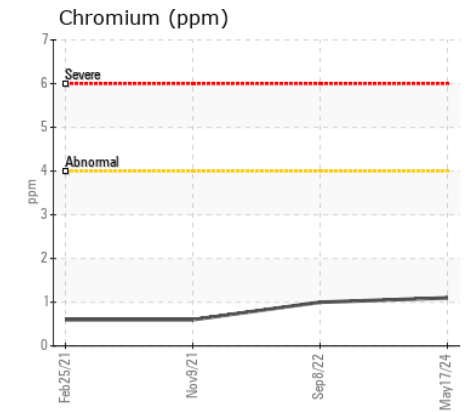
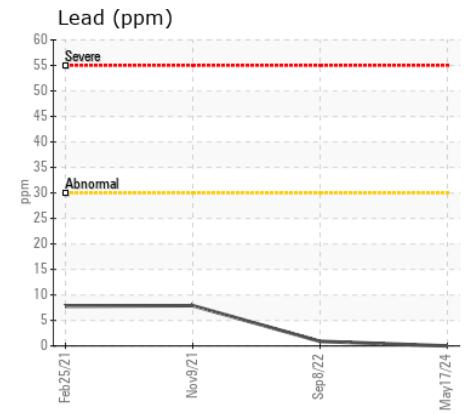
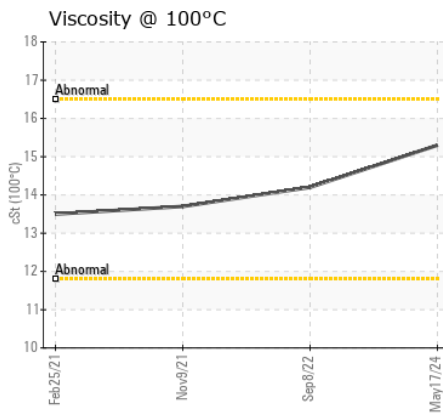
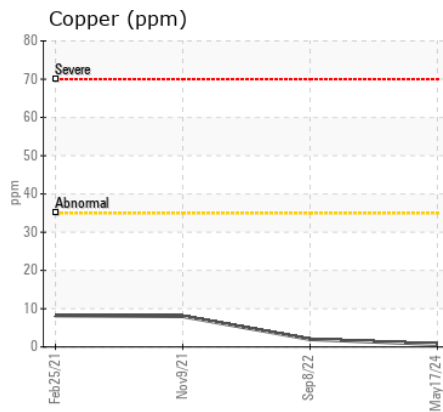
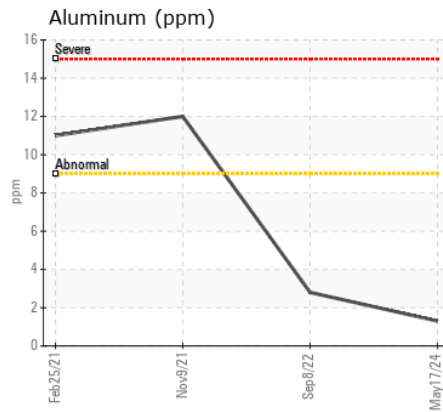
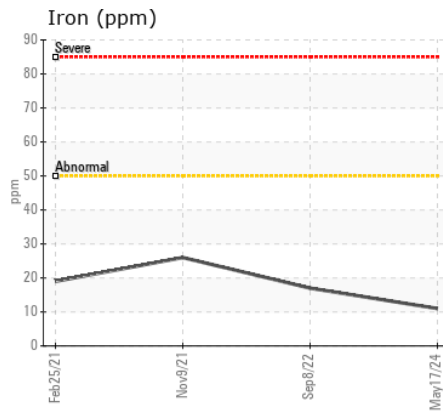
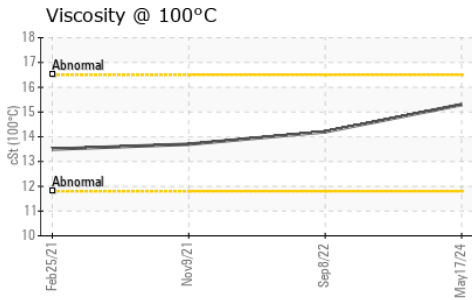
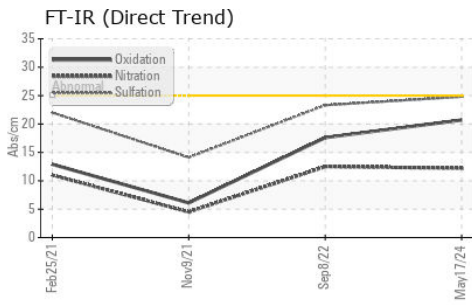
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	18	13	8
Potassium	ppm	ASTM D5185(m)	>20	1	4	26
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.2	12.5	4.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	23.3	14.1
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)	>101	4	2	3
Boron	ppm	ASTM D5185(m)		12	14	52
Barium	ppm	ASTM D5185(m)		0	2	0
Molybdenum	ppm	ASTM D5185(m)		55	35	8
Manganese	ppm	ASTM D5185(m)		<1	2	1
Magnesium	ppm	ASTM D5185(m)		586	526	45
Calcium	ppm	ASTM D5185(m)		1695	1524	1741
Phosphorus	ppm	ASTM D5185(m)		699	818	822
Zinc	ppm	ASTM D5185(m)		973	877	951
Sulfur	ppm	ASTM D5185(m)		2066	2024	1858
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.7	17.6	6.1
Visc @ 100°C	cSt	ASTM D7279(m)		15.3	14.2	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0051759
Lab Number : 02637589
Unique Number : 5786751
Test Package : MOB 1

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 20 SIMMONDS DRIVE
 DARTMOUTH, NS
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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.