

Machine Id
931001
Component
Natural Gas Engine
Fluid
IRVING 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0051754	GFL0051729	GFL0035101
Sample Date		Client Info		19 Apr 2024	20 Jun 2022	15 Oct 2021
Machine Age	hrs	Client Info		8751	3735	2530
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				ABNORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	26	27	19
Chromium	ppm	ASTM D5185(m)	>4	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	2	<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	8	4	20
Lead	ppm	ASTM D5185(m)	>30	1	20	22
Copper	ppm	ASTM D5185(m)	>35	2	5	8
Tin	ppm	ASTM D5185(m)	>4	<1	2	3
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

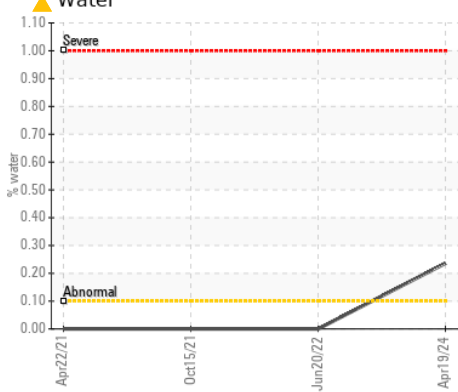
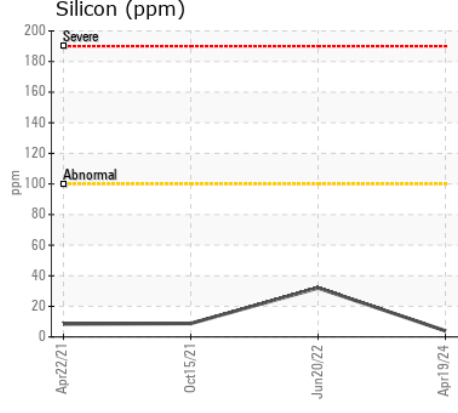
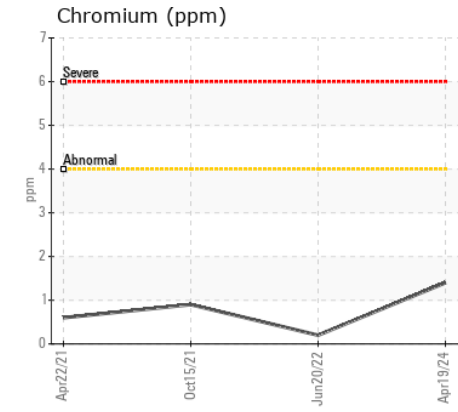
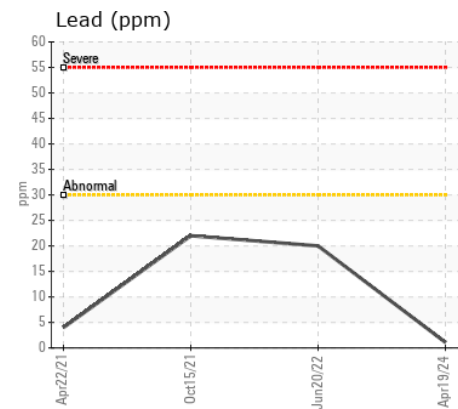
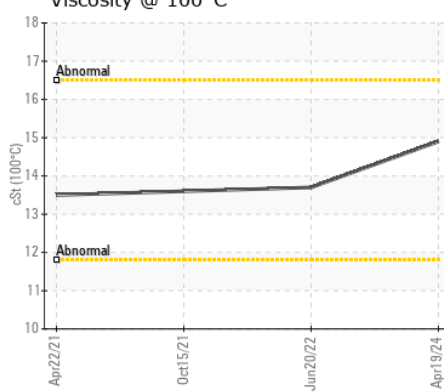
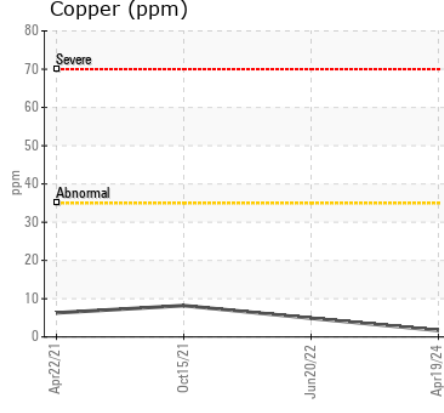
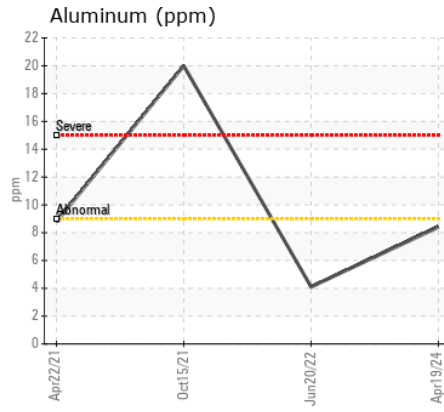
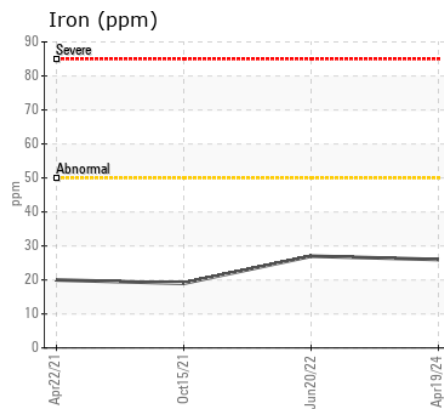
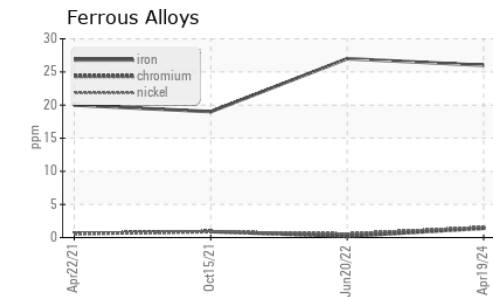
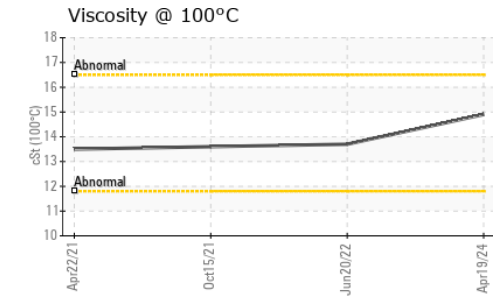
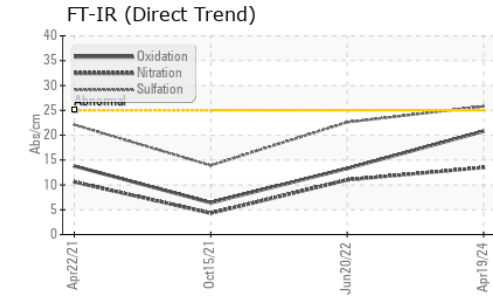
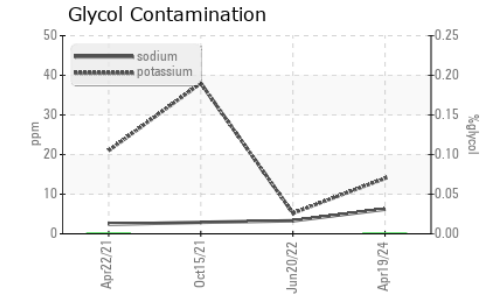
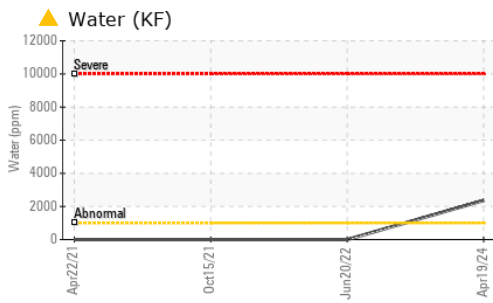
There is a moderate concentration of water present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>+100	4	32	9
Potassium	ppm	ASTM D5185(m)	>20	14	5	38
Water	%	ASTM D6304*	>0.1	▲ 0.236	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 2364	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.5	11.0	4.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.8	22.6	13.9
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	▲ .2%	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>101	6	3	3
Boron	ppm	ASTM D5185(m)		9	52	42
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		63	4	7
Manganese	ppm	ASTM D5185(m)		1	2	2
Magnesium	ppm	ASTM D5185(m)		652	40	48
Calcium	ppm	ASTM D5185(m)		1862	1719	1827
Phosphorus	ppm	ASTM D5185(m)		776	735	796
Zinc	ppm	ASTM D5185(m)		1025	897	955
Sulfur	ppm	ASTM D5185(m)		2123	1726	1733
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.8	13.3	6.4
Visc @ 100°C	cSt	ASTM D7279(m)		14.9	13.7	13.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0051754 **Received** : 23 Apr 2024
Lab Number : 02630909 **Tested** : 24 Apr 2024
Unique Number : 5772062 **Diagnosed** : 24 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual)

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 20 SIMMONDS DRIVE
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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.