



Machine Id
731096
Component
Natural Gas Engine
Fluid
RDL-3647 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0110251	GFL0085854	GFL0071068
Sample Date		Client Info		06 Mar 2024	15 Aug 2023	24 Feb 2023
Machine Age	hrs	Client Info		4216	4216	3191
Oil Age	hrs	Client Info		4216	1200	600
Filter Age	hrs	Client Info		4216	1200	600
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	12	11	12
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	2	2	1
Copper	ppm	ASTM D5185(m)	>35	2	2	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

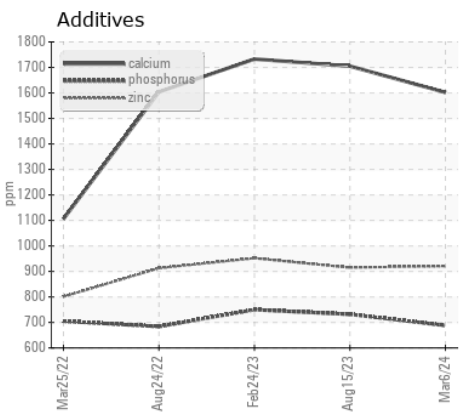
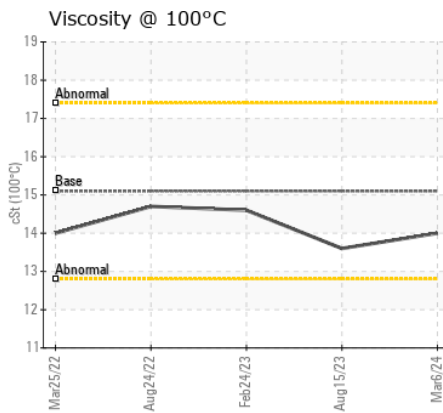
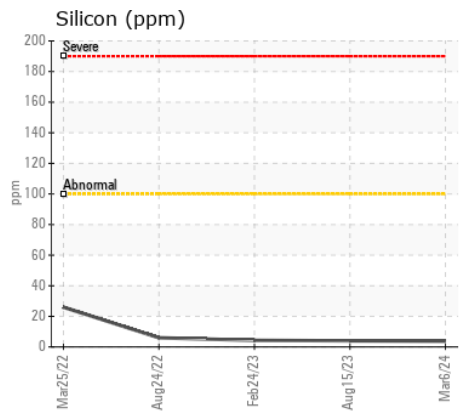
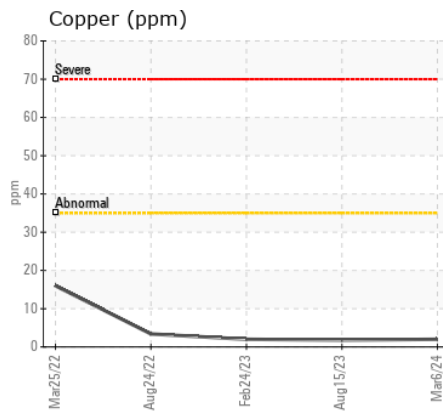
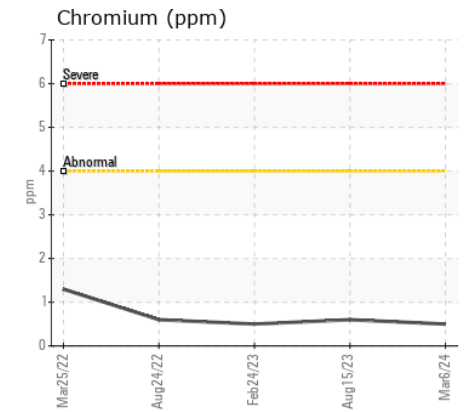
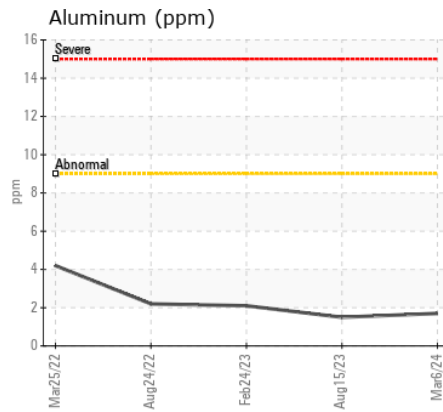
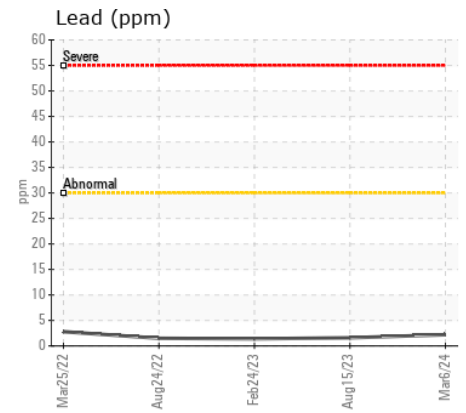
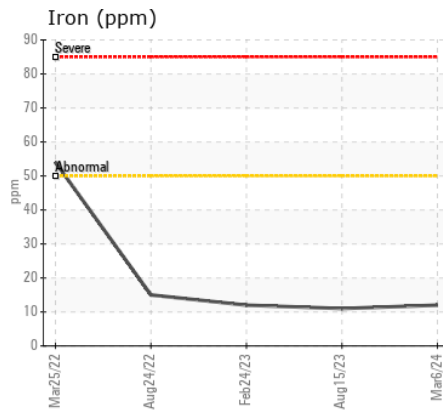
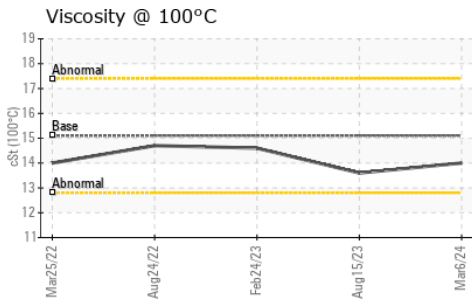
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	4	4	4
Potassium	ppm	ASTM D5185(m)	>20	1	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.8	10.4	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.8	24.4	22.2
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)		8	8	8
Boron	ppm	ASTM D5185(m)	50	6	9	8
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	57	71	55
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	575	456	571
Calcium	ppm	ASTM D5185(m)	1510	1602	1705	1733
Phosphorus	ppm	ASTM D5185(m)	780	688	732	750
Zinc	ppm	ASTM D5185(m)	870	921	915	952
Sulfur	ppm	ASTM D5185(m)	2040	2136	2150	2065
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.5	16.9	15.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.0	13.6	14.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0110251
Lab Number : 02620400
Unique Number : 5737510
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.