



Machine Id
731012
Component
Natural Gas Engine
Fluid
CASTROL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100772	GFL0100722	GFL0079577
Sample Date		Client Info		17 Jun 2024	22 Feb 2024	05 Jul 2023
Machine Age	kms	Client Info		137649	6291	78725
Oil Age	kms	Client Info		0	0	78725
Filter Age	kms	Client Info		0	0	78725
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	8	14	19
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	1	3	1
Lead	ppm	ASTM D5185(m)	>30	<1	1	<1
Copper	ppm	ASTM D5185(m)	>35	<1	2	3
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

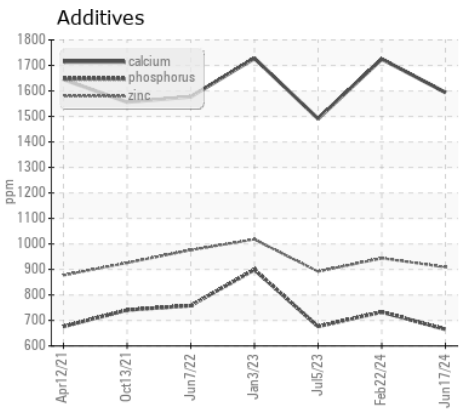
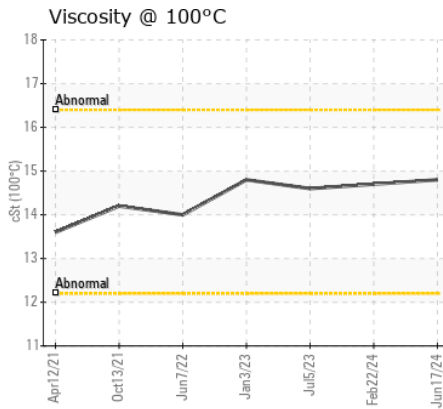
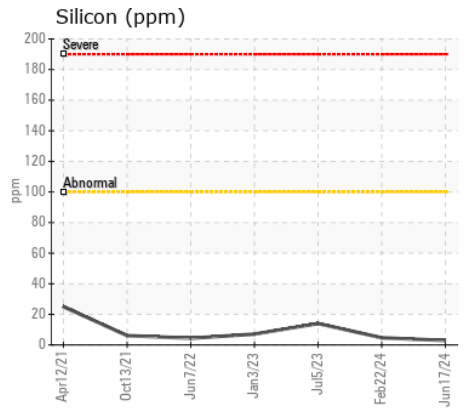
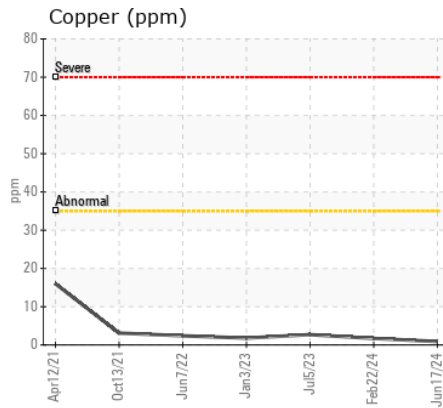
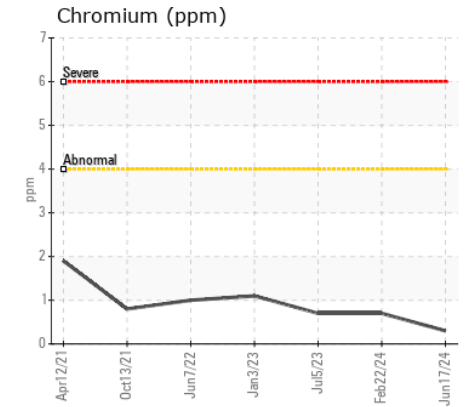
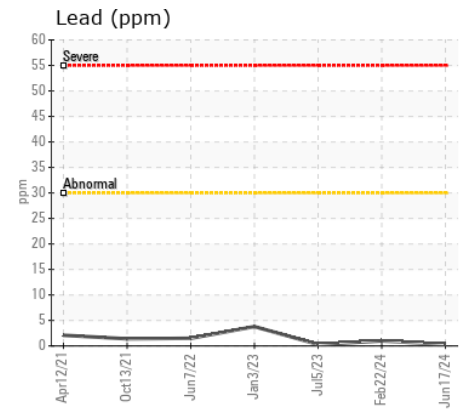
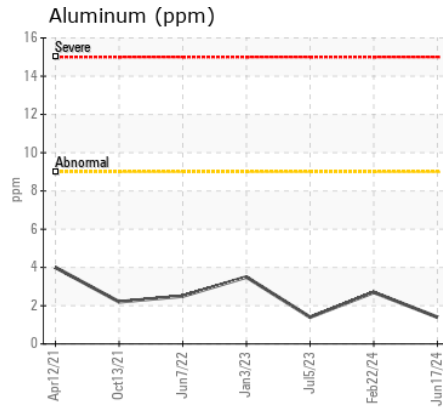
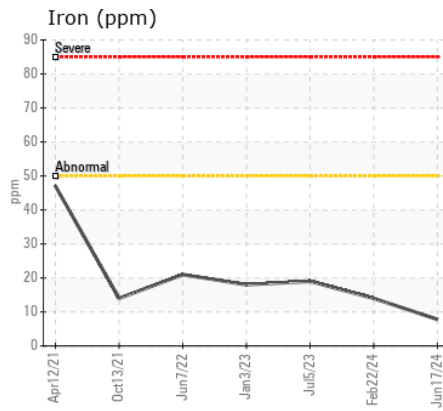
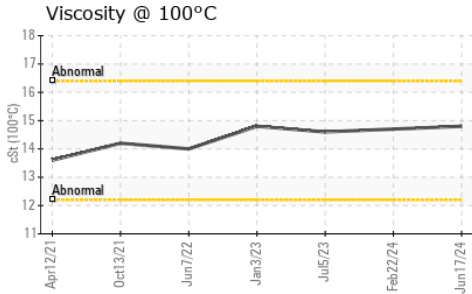
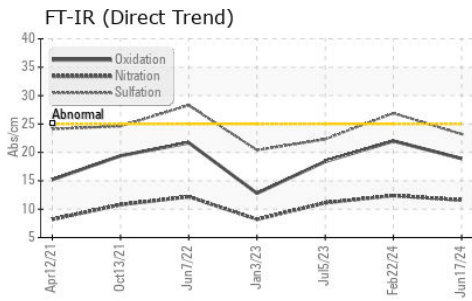
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	3	5	14
Potassium	ppm	ASTM D5185(m)	>20	2	5	29
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.6	12.4	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	26.9	22.3
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)	>406	2	4	5
Boron	ppm	ASTM D5185(m)		6	5	8
Barium	ppm	ASTM D5185(m)		0	<1	5
Molybdenum	ppm	ASTM D5185(m)		53	56	52
Manganese	ppm	ASTM D5185(m)		<1	<1	3
Magnesium	ppm	ASTM D5185(m)		548	562	538
Calcium	ppm	ASTM D5185(m)		1594	1725	1491
Phosphorus	ppm	ASTM D5185(m)		665	733	676
Zinc	ppm	ASTM D5185(m)		909	944	892
Sulfur	ppm	ASTM D5185(m)		2010	2176	1958
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.9	22.0	18.4
Visc @ 100°C	cSt	ASTM D7279(m)		14.8	14.7	14.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100772
Lab Number : 02643138
Unique Number : 5800677
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.