



Machine Id
731000
Component
Natural Gas Engine
Fluid
CASTROL DURATEC ES 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		GFL0100734	GFL0100764	GFL0041624
Sample Date		Client Info		08 Apr 2024	02 Nov 2023	30 Nov 2022
Machine Age	kms	Client Info		98410	92992	57430
Oil Age	kms	Client Info		0	0	1093
Filter Age	kms	Client Info		0	0	1093
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	10	19	14
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	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	0	2	2
Copper	ppm	ASTM D5185(m)	>35	<1	2	2
Tin	ppm	ASTM D5185(m)	>4	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

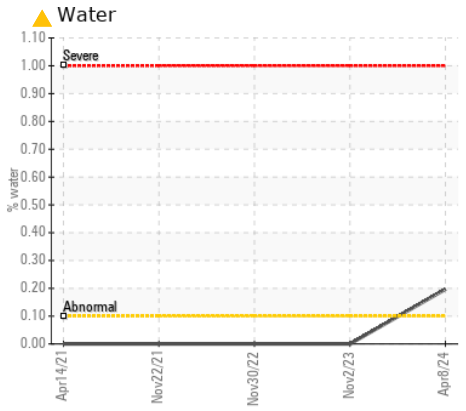
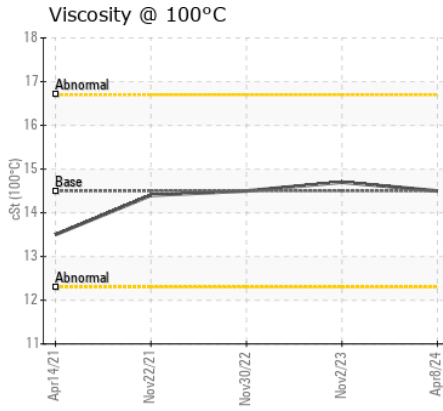
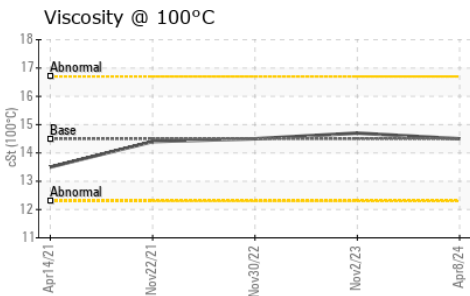
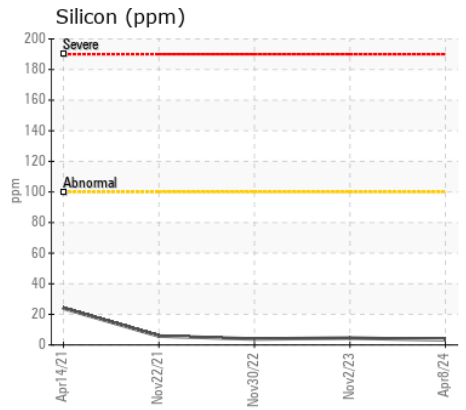
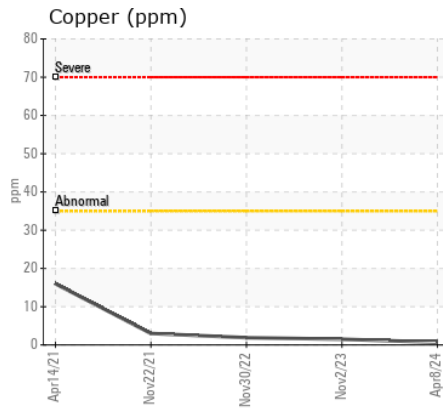
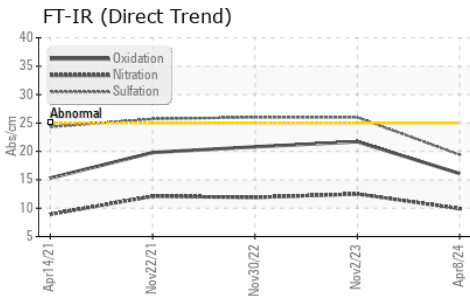
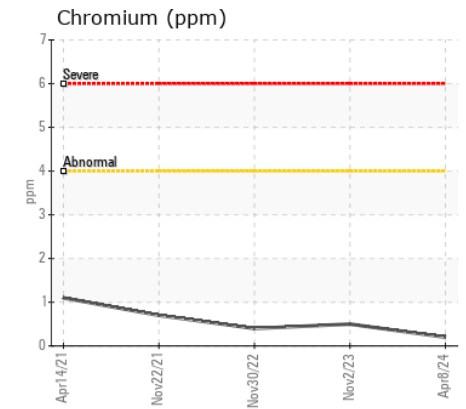
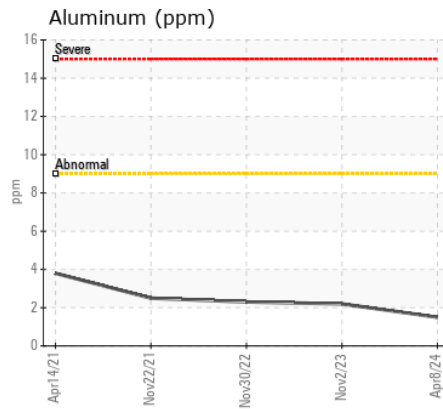
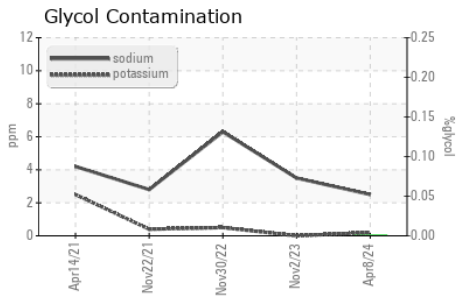
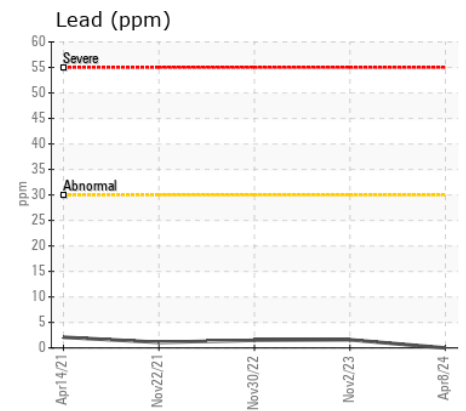
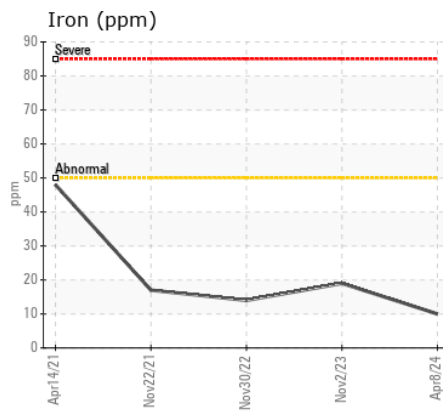
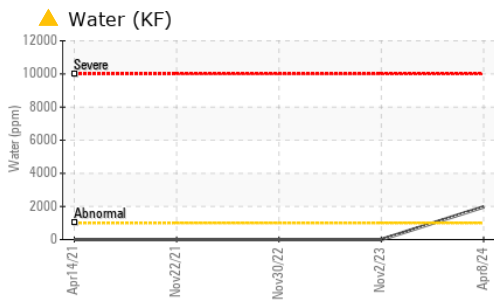
There is a moderate concentration of water present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>+100	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Water	%	ASTM D6304*	>0.1	▲ 0.197	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 1975	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.9	12.5	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	26.0	26.0
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)		2	4	6
Boron	ppm	ASTM D5185(m)	40	16	7	9
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	49	60	55
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)	15	527	622	578
Calcium	ppm	ASTM D5185(m)	2000	1600	1785	1700
Phosphorus	ppm	ASTM D5185(m)	700	750	766	788
Zinc	ppm	ASTM D5185(m)	850	914	1030	990
Sulfur	ppm	ASTM D5185(m)	2900	1999	2162	2170
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	21.7	20.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	14.5	14.7	14.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100734
Lab Number : 02627811
Unique Number : 5760943
Test Package : MOB 1 (Additional Tests: Glycol, KF)

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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.