



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
813075
 Component
Diesel Engine
 Fluid
CERTIFIED SPECTRA XTREME 15W40 CK4 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0105886	GFL0105895	GFL0076463
Sample Date		Client Info		02 Apr 2024	28 Feb 2024	10 Apr 2023
Machine Age	kms	Client Info		44572	42443	830
Oil Age	kms	Client Info		0	0	348
Filter Age	kms	Client Info		0	0	348
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	4	14	12
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	5	3
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

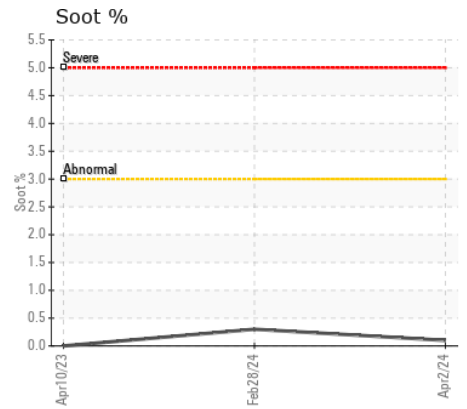
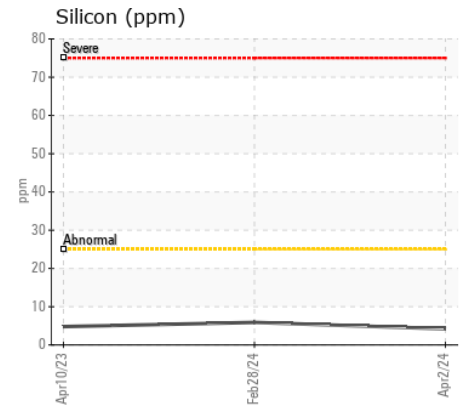
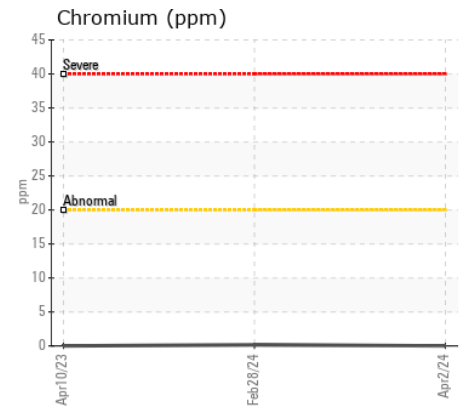
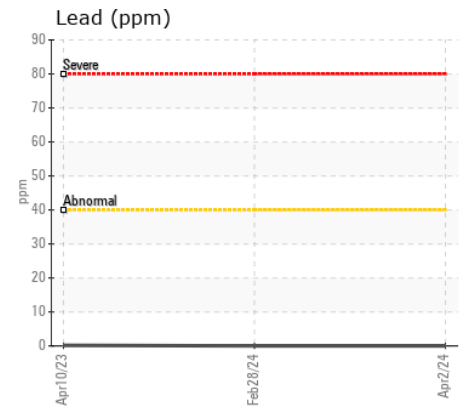
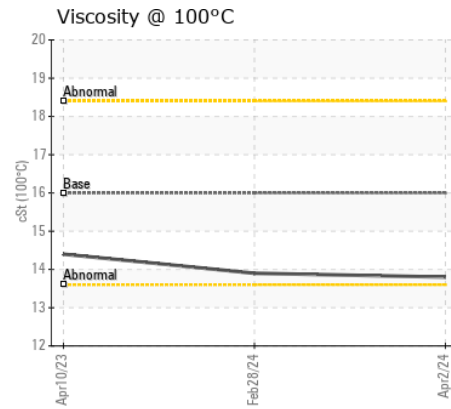
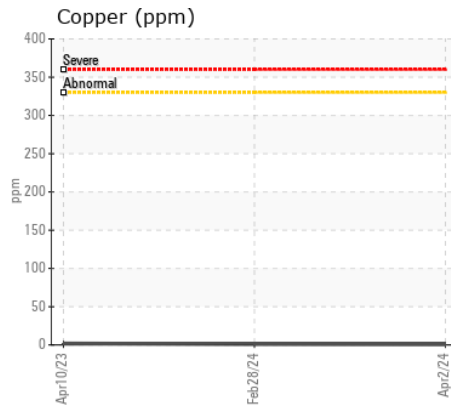
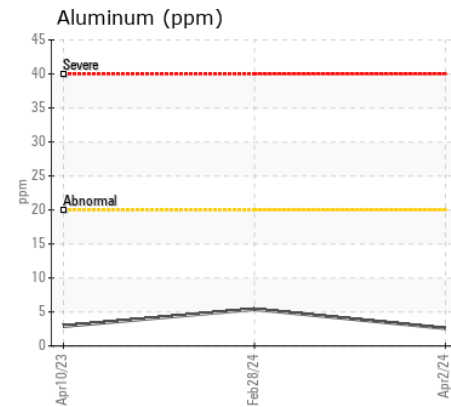
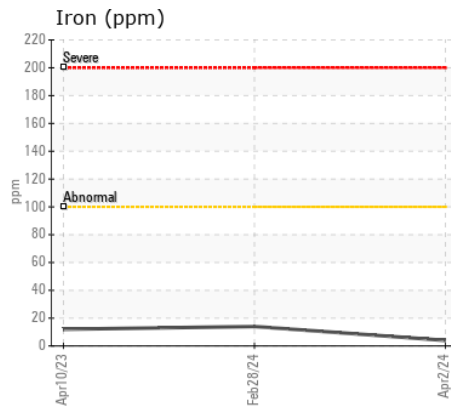
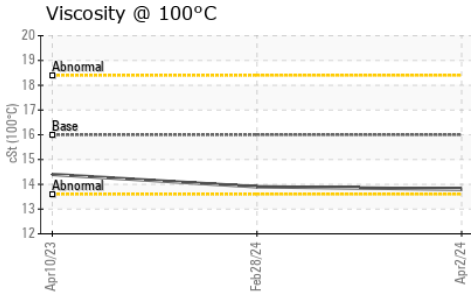
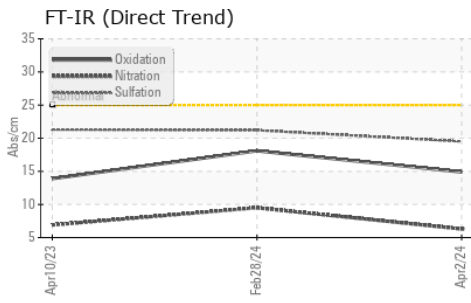
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	6	5
Potassium	ppm	ASTM D5185(m)	>20	<1	2	8
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.3	0
Nitration	Abs/cm	ASTM D7624*	>20	6.3	9.5	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	21.2	21.3
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	6	5
Boron	ppm	ASTM D5185(m)		<1	<1	131
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		295	310	5
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		1016	1061	74
Calcium	ppm	ASTM D5185(m)		1095	1164	2307
Phosphorus	ppm	ASTM D5185(m)		1187	1233	1035
Zinc	ppm	ASTM D5185(m)		1232	1306	1121
Sulfur	ppm	ASTM D5185(m)		2868	2949	3024
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9	18.1	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	16	13.8	13.9	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0105886 **Received** : 11 Apr 2024
Lab Number : 02628145 **Tested** : 11 Apr 2024
Unique Number : 5761277 **Diagnosed** : 11 Apr 2024 - Wes Davis
Test Package : MOB 1

GFL Environmental - 348
 1027 Kirk Line East
 Bracebridge, ON
 CA P1L 0A1
 Contact: Royce Reid
 roycereid@gflenv.com

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.

T:
F: