



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GFL216

Machine Id
5539

Component
Diesel Engine

Fluid
CERTIFIED SPECTRA XTREME 15W40 (35 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0105877	GFL0108437	GFL0099662
Sample Date		Client Info		26 Jun 2024	08 Jan 2024	02 Oct 2023
Machine Age	kms	Client Info		0	484418	468354
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	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)	>120	11	19	9
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	1
Aluminum	ppm	ASTM D5185(m)	>20	2	3	1
Lead	ppm	ASTM D5185(m)	>40	<1	5	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

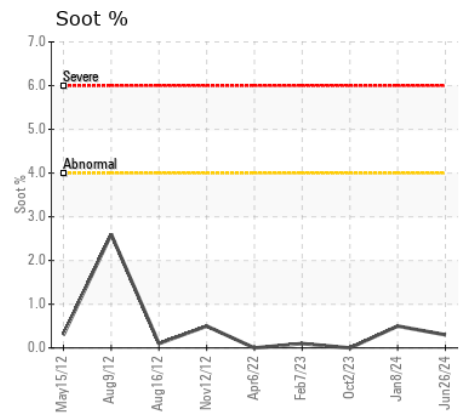
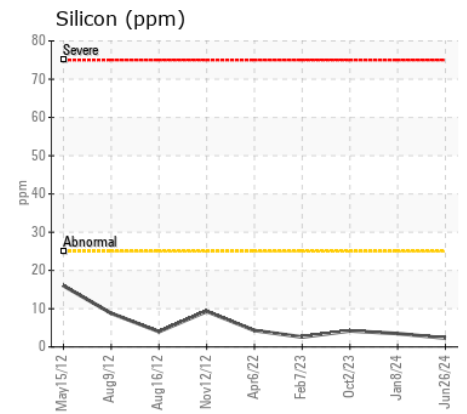
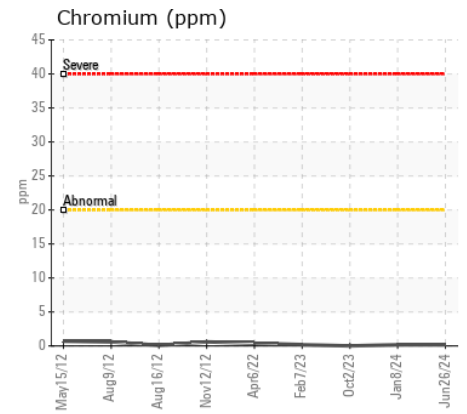
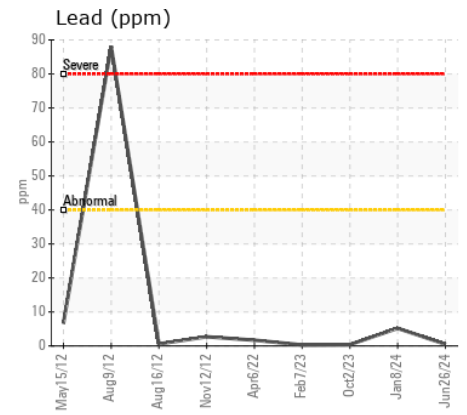
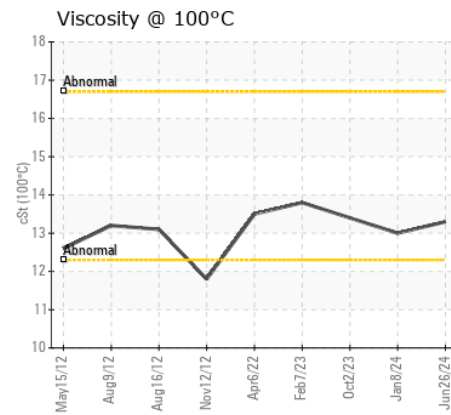
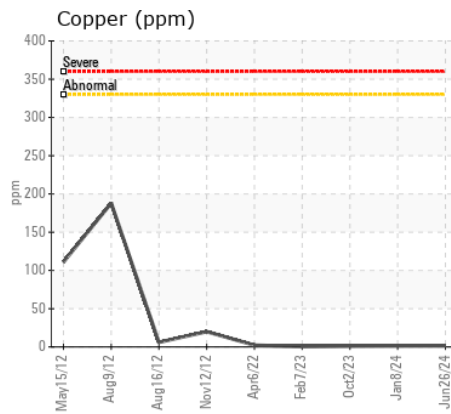
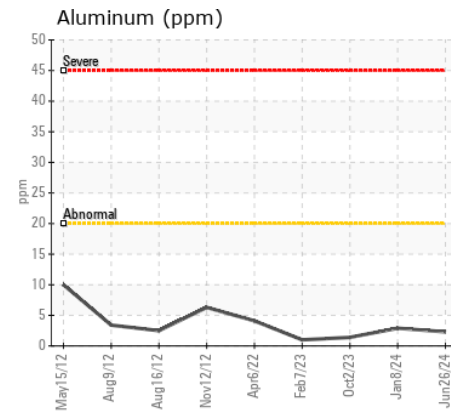
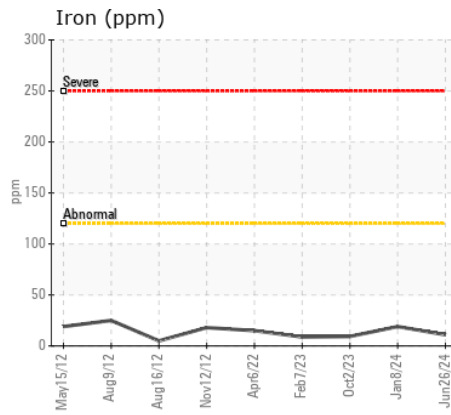
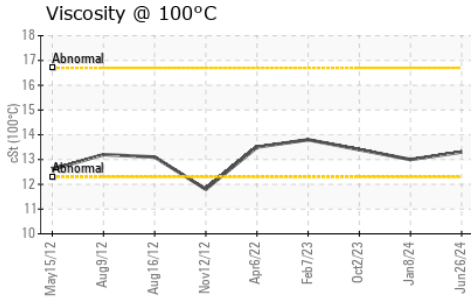
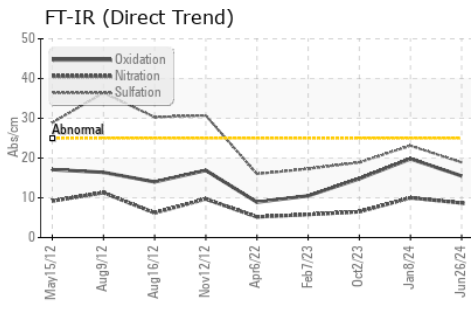
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
Fuel		WC Method	>3.0	<1.0	2.5	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.3	0.5	0
Nitration	Abs/cm	ASTM D7624*	>20	8.7	10.0	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	23.1	18.9
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)		3	7	5
Boron	ppm	ASTM D5185(m)		4	<1	6
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		58	59	59
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		939	926	935
Calcium	ppm	ASTM D5185(m)		1022	998	1033
Phosphorus	ppm	ASTM D5185(m)		956	921	945
Zinc	ppm	ASTM D5185(m)		1159	1141	1146
Sulfur	ppm	ASTM D5185(m)		2535	2530	2368
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.5	19.8	14.8
Visc @ 100°C	cSt	ASTM D7279(m)		13.3	13.0	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0105877
Lab Number : 02645197
Unique Number : 5802736
Test Package : MOB 1

GFL Environmental - 252 - GTA Hauling
 3668 Weston Road
 North York, ON
 CA M9L 1W2
 Contact: Amanda Cipollone
 acipollone@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.

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F: