



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4778
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0097292	GFL0097244	GFL0064878
Sample Date		Client Info		29 Apr 2024	18 Oct 2023	09 Sep 2023
Machine Age	hrs	Client Info		916614	1821	1706
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	12	9	21
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	<1	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	1
Copper	ppm	ASTM D5185(m)	>330	8	7	16
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

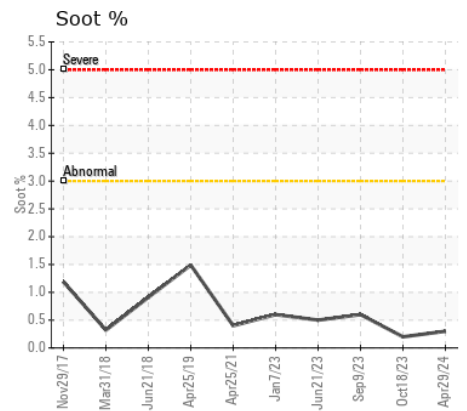
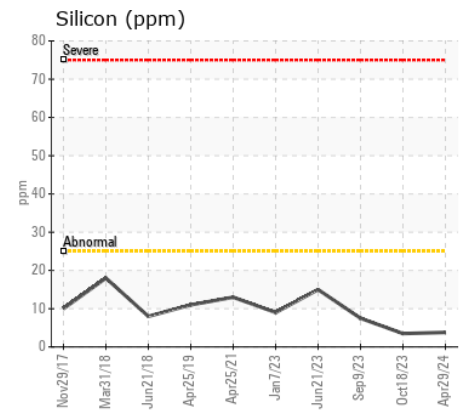
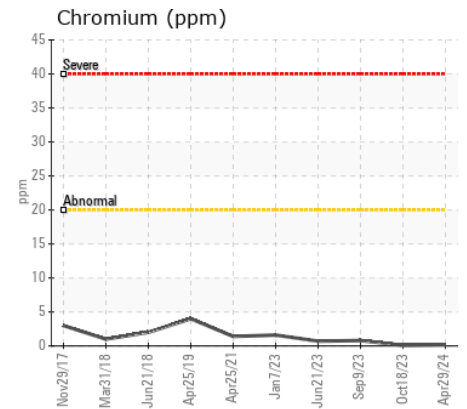
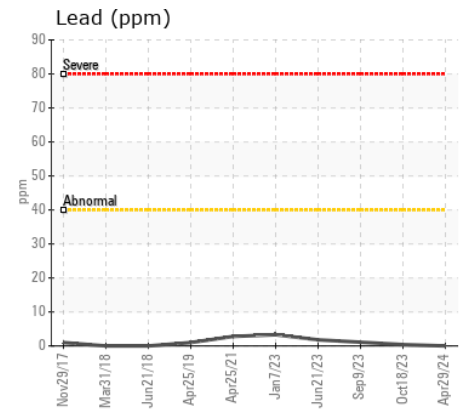
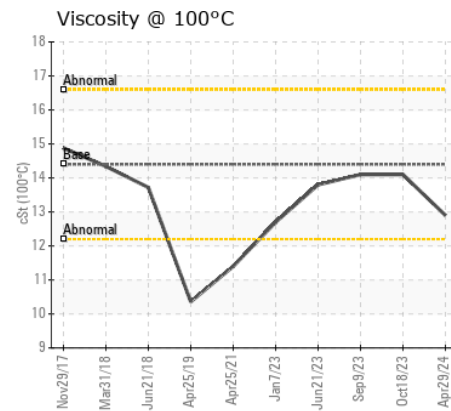
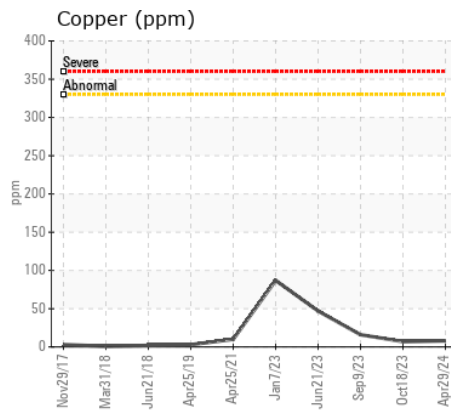
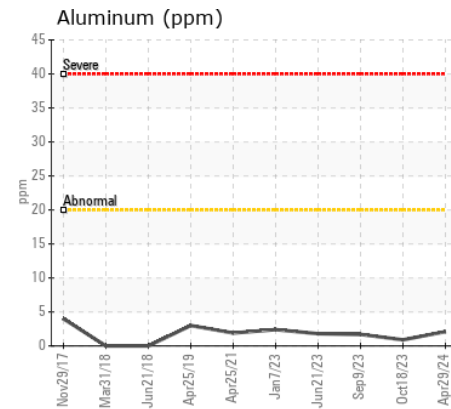
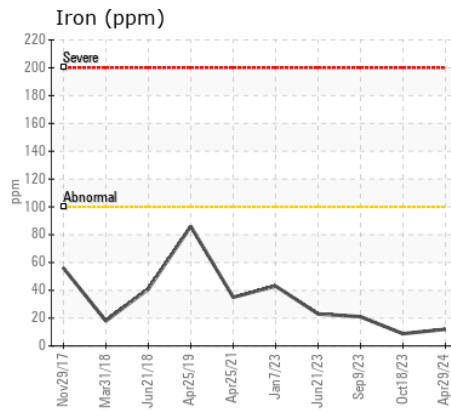
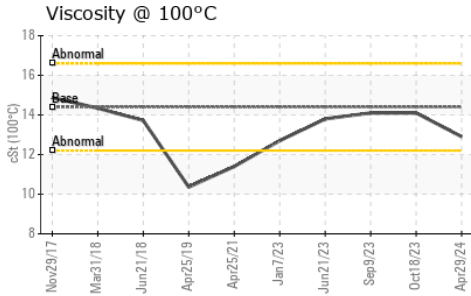
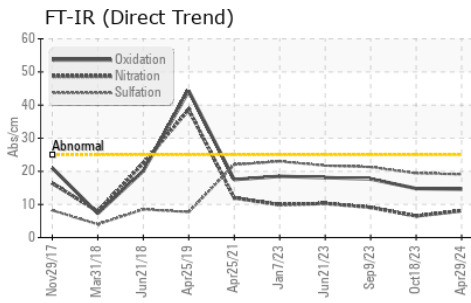
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	4	8
Potassium	ppm	ASTM D5185(m)	>20	3	0	1
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	0.3	0.2	0.6
Nitration	Abs/cm	ASTM D7624*	>20	8.1	6.5	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	19.4	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)	>158	10	3	11
Boron	ppm	ASTM D5185(m)	250	20	5	7
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	41	57	50
Manganese	ppm	ASTM D5185(m)		<1	0	1
Magnesium	ppm	ASTM D5185(m)	450	894	948	960
Calcium	ppm	ASTM D5185(m)	3000	1128	1043	1128
Phosphorus	ppm	ASTM D5185(m)	1150	909	978	1025
Zinc	ppm	ASTM D5185(m)	1350	1032	1163	1155
Sulfur	ppm	ASTM D5185(m)	4250	2484	2506	2478
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	14.8	17.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.9	14.1	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097292
Lab Number : 02632731
Unique Number : 5773884
Test Package : MOB 1
Received : 02 May 2024
Tested : 02 May 2024
Diagnosed : 02 May 2024 - Wes Davis

GFL Environmental - 558 - Grand Prairie
 8003 - 110 Street,
 Grande Prairie, AB
 CA T8W 6T2
 Contact: GFL Tech
 wcgfldemo@gmail.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.