



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4572
 Component
Diesel Engine
 Fluid
ESSO 15W40 (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107296	GFL0107277	GFL0079253
Sample Date		Client Info		21 Jun 2024	04 Jan 2024	15 Nov 2023
Machine Age	hrs	Client Info		7118	6449	61903
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	66	46	113
Chromium	ppm	ASTM D5185(m)	>5	1	1	3
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	3	6
Lead	ppm	ASTM D5185(m)	>150	<1	2	12
Copper	ppm	ASTM D5185(m)	>90	<1	<1	1
Tin	ppm	ASTM D5185(m)	>5	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

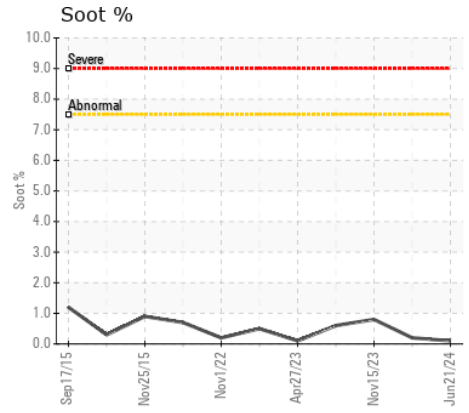
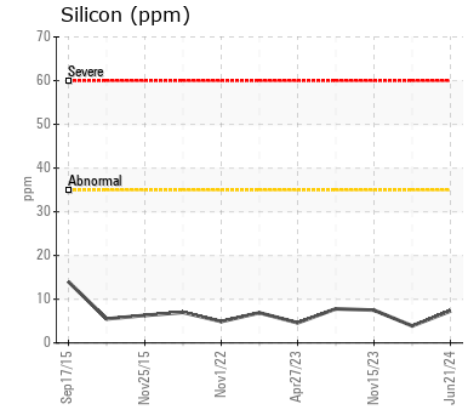
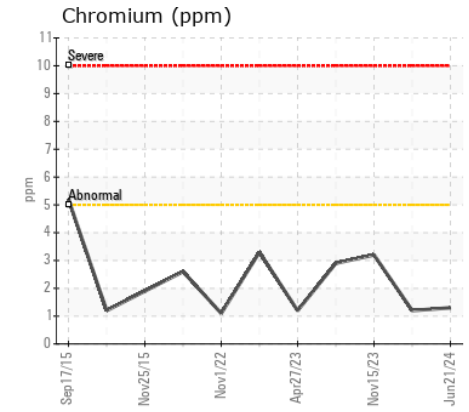
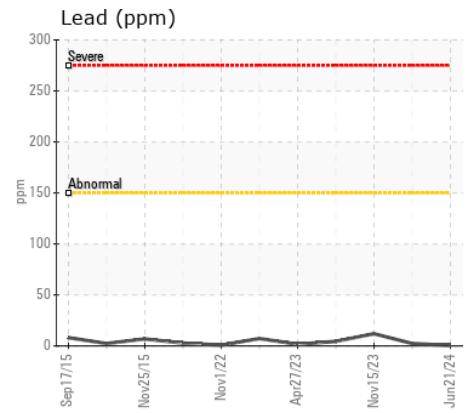
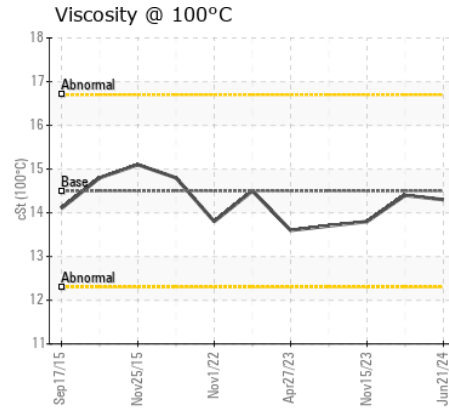
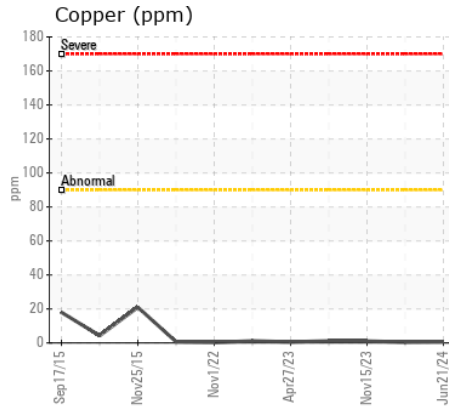
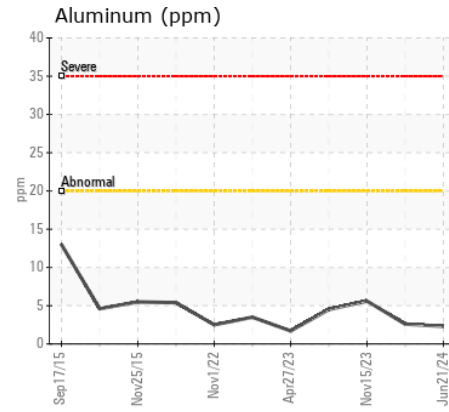
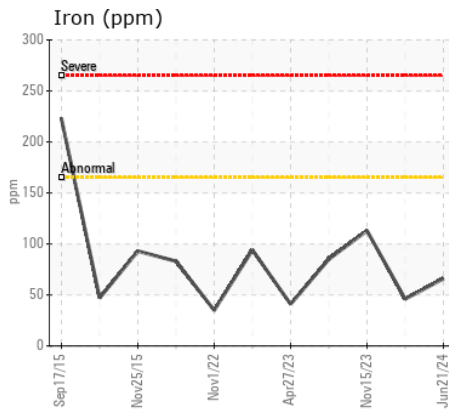
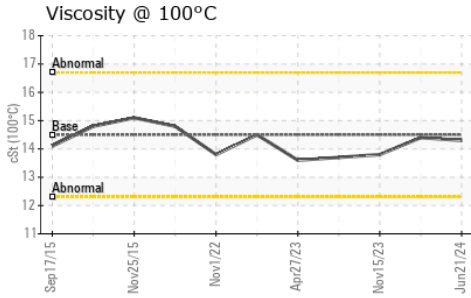
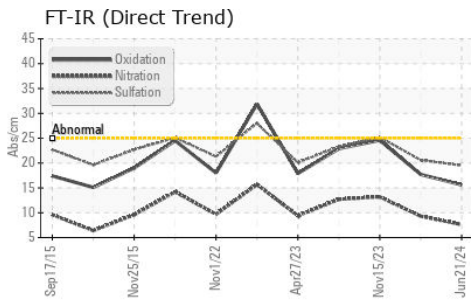
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	7	4	8
Potassium	ppm	ASTM D5185(m)	>20	2	2	8
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>7.5	0.1	0.2	0.8
Nitration	Abs/cm	ASTM D7624*	>20	7.6	9.3	13.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	20.6	25.2
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)		4	3	2
Boron	ppm	ASTM D5185(m)		3	4	13
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		58	60	66
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)		942	967	959
Calcium	ppm	ASTM D5185(m)		1019	1083	1151
Phosphorus	ppm	ASTM D5185(m)		968	1026	1030
Zinc	ppm	ASTM D5185(m)		1164	1197	1214
Sulfur	ppm	ASTM D5185(m)		2477	2688	2511
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.6	17.7	24.6
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	14.3	14.4	13.8



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107296
Lab Number : 02643988
Unique Number : 5801527
Test Package : MOB 1

Received : 25 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Wes Davis

GFL Environmental - 250 - Sault Ste Marie Hauling + MRF
 86 Sackville Rd,
 Sault Ste. Marie, ON
 CA P6B 4T6
 Contact: Mike Pelletier
 mpelletier@gflenv.com
 T: (705)945-7554
 F: (705)945-7857

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.