



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		GFL0107277	GFL0079253	GFL0079226
Sample Date		Client Info		04 Jan 2024	15 Nov 2023	15 Jul 2023
Machine Age	hrs	Client Info		6449	61903	5587
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	46	113	85
Chromium	ppm	ASTM D5185(m)	>5	1	3	3
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	6	4
Lead	ppm	ASTM D5185(m)	>150	2	12	4
Copper	ppm	ASTM D5185(m)	>90	<1	1	1
Tin	ppm	ASTM D5185(m)	>5	<1	1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

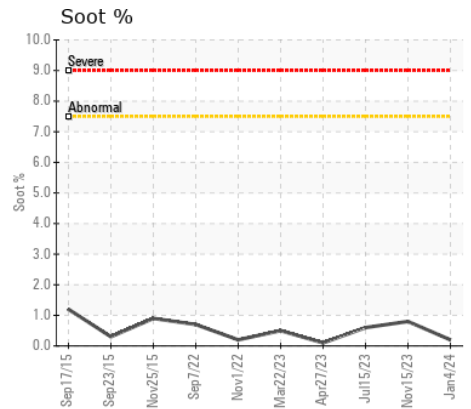
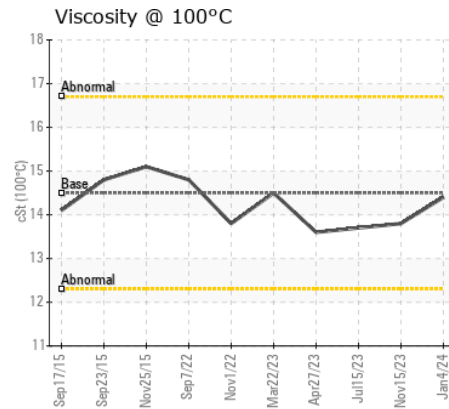
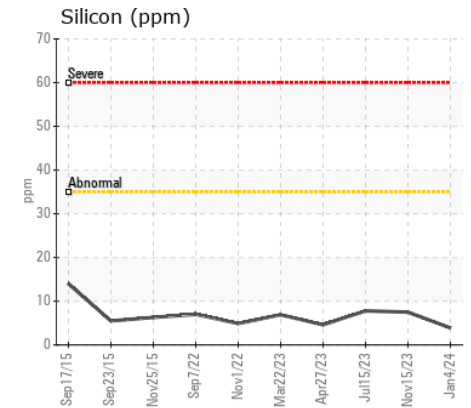
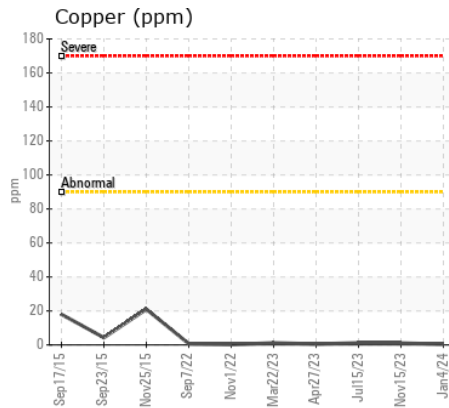
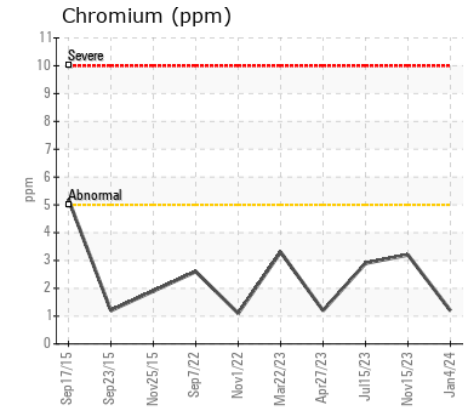
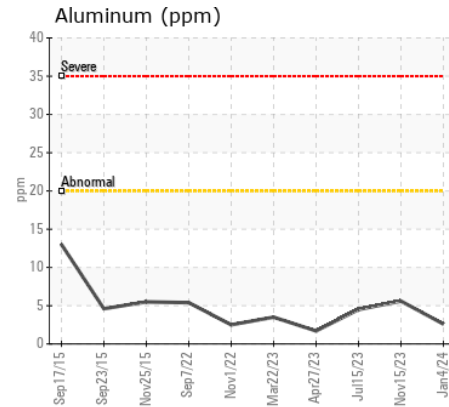
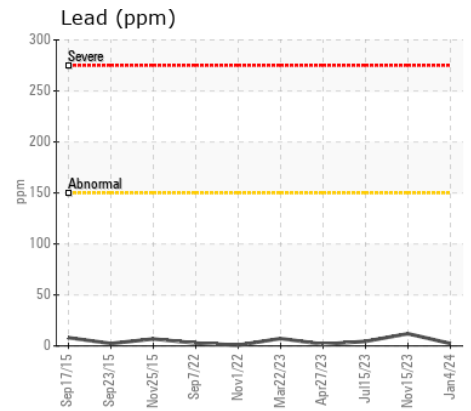
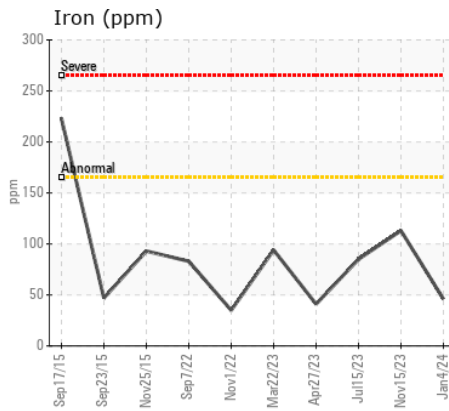
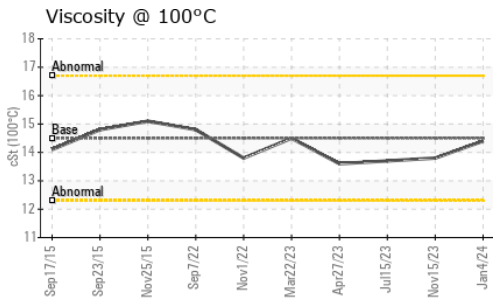
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	4	8	8
Potassium	ppm	ASTM D5185(m)	>20	2	8	6
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	0.2	0.8	0.6
Nitration	Abs/cm	ASTM D7624*	>20	9.3	13.2	12.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	25.2	23.3
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)		3	2	2
Boron	ppm	ASTM D5185(m)		4	13	10
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		60	66	62
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		967	959	982
Calcium	ppm	ASTM D5185(m)		1083	1151	1092
Phosphorus	ppm	ASTM D5185(m)		1026	1030	1068
Zinc	ppm	ASTM D5185(m)		1197	1214	1206
Sulfur	ppm	ASTM D5185(m)		2688	2511	2520
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.7	24.6	22.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	14.4	13.8	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 250 - Sault Ste Marie Hauling + MRF
Sample No. : GFL0107277 **Received** : 09 Jan 2024 86 Sackville Rd,
Lab Number : 02607355 **Diagnosed** : 09 Jan 2024 Sault Ste. Marie, ON
Unique Number : 5708441 **Diagnostician** : Wes Davis CA P6B 4T6
Test Package : MOB 1 Contact: Mike Pelletier
 mpelletier@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: (705)945-7554
 F: (705)945-7857