



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
OR132
Component
Diesel Engine
Fluid
SAE 0W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0038128	GFL0038130	GFL11261257
Sample Date		Client Info		25 Nov 2023	26 Sep 2023	01 Jun 2017
Machine Age	hrs	Client Info		9851	9636	4775
Oil Age	hrs	Client Info		300	600	310
Filter Age	hrs	Client Info		300	600	---
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	32	▲ 141	30
Chromium	ppm	ASTM D5185(m)	>11	<1	3	1
Nickel	ppm	ASTM D5185(m)	>5	<1	4	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>31	2	▲ 6	0
Lead	ppm	ASTM D5185(m)	>26	0	<1	0
Copper	ppm	ASTM D5185(m)	>26	1	6	4
Tin	ppm	ASTM D5185(m)	>4	0	0	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

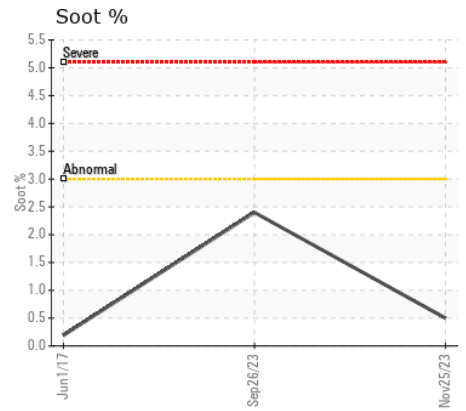
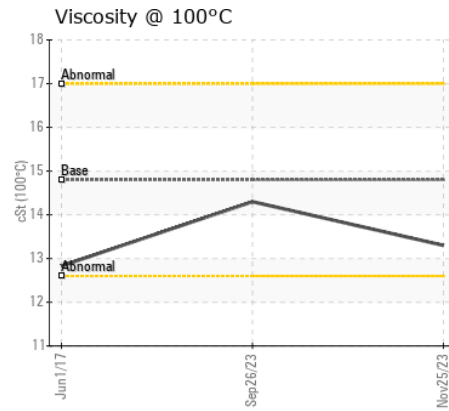
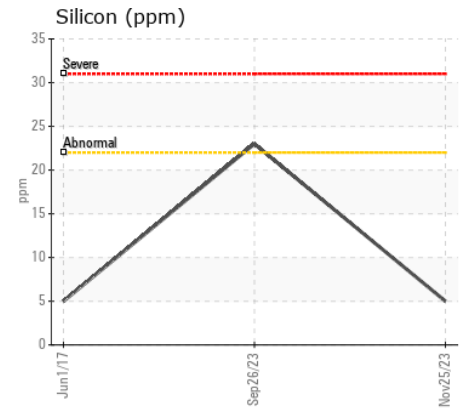
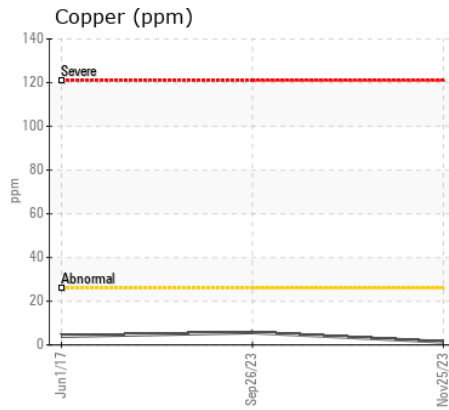
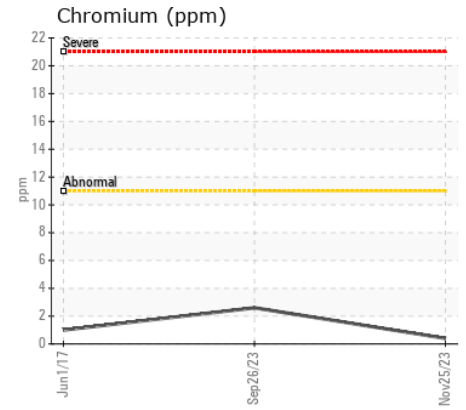
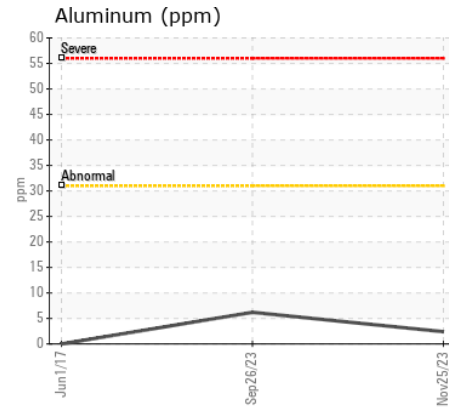
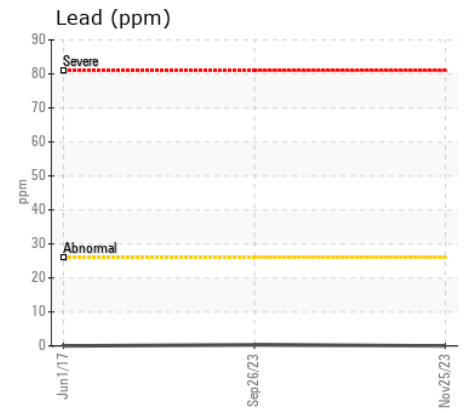
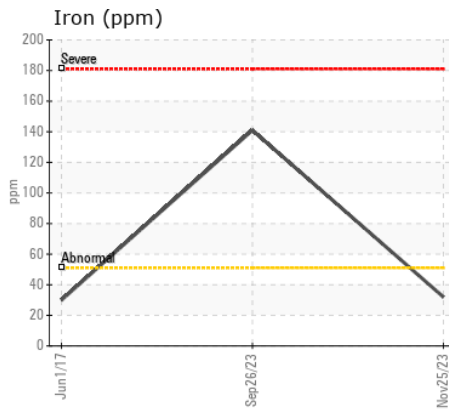
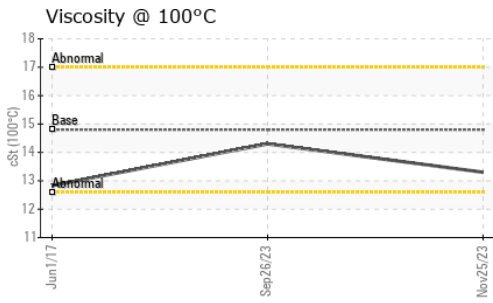
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	5	▲ 23	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Fuel		WC Method	>2.1	<1.0	<1.0	▲ 3.01
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	2.4	0.19
Nitration	Abs/cm	ASTM D7624*	>20	6.3	10.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	24.1	---
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>31	2	3	4
Boron	ppm	ASTM D5185(m)		<1	1	3
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		59	74	2
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		950	1076	7
Calcium	ppm	ASTM D5185(m)		1048	1190	2460
Phosphorus	ppm	ASTM D5185(m)		976	1074	1020
Zinc	ppm	ASTM D5185(m)		1173	1365	1160
Sulfur	ppm	ASTM D5185(m)		2603	2251	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	18.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	13.3	14.3	12.83



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 555 - Slave Lake**
Sample No. : GFL0038128 **Received** : 05 Jan 2024 **240 Balsam Rd NE, P.O. 362**
Lab Number : 02606693 **Diagnosed** : 05 Jan 2024 **Slave Lake, AB**
Unique Number : 5707779 **Diagnostician** : Kevin Marson **CA T0G 2A0**
Test Package : MOB 1 **Contact: William Barker**
wbarker@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.