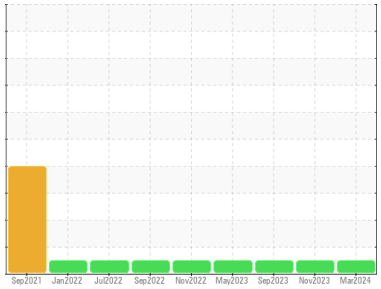
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
719004
Component
Diesel Engine
Fluid
CASTROL 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
Metal levels are typical for a new component breaking in.

Contamination
There is no indication of any contamination in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0093121**	GFL0093122	GFL0093114
Sample Date		Client Info		**22 Mar 2024**	21 Nov 2023	26 Sep 2023
Machine Age	kms	Client Info		**86988**	77399	72639
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	**40**	14	29
Chromium	ppm	ASTM D5185(m)	>5	**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)	>3	**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	**15**	5	10
Lead	ppm	ASTM D5185(m)	>30	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>150	**2**	<1	2
Tin	ppm	ASTM D5185(m)	>5	**0**	0	0
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**7**	9	10
Barium	ppm	ASTM D5185(m)		**0**	0	<1
Molybdenum	ppm	ASTM D5185(m)		**49**	46	34
Manganese	ppm	ASTM D5185(m)		**0**	0	0
Magnesium	ppm	ASTM D5185(m)		**764**	714	501
Calcium	ppm	ASTM D5185(m)		**1220**	1223	1501
Phosphorus	ppm	ASTM D5185(m)		**911**	950	852
Zinc	ppm	ASTM D5185(m)		**1149**	1102	1085
Sulfur	ppm	ASTM D5185(m)		**2589**	2766	2719
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**3**	2	4
Sodium	ppm	ASTM D5185(m)	>406	**1**	<1	2
Potassium	ppm	ASTM D5185(m)	>20	**5**	3	6

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**0.5**	0.3	0.6
Nitration	Abs/cm	ASTM D7624*	>20	**11.1**	8.8	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**19.7**	19.2	20.6

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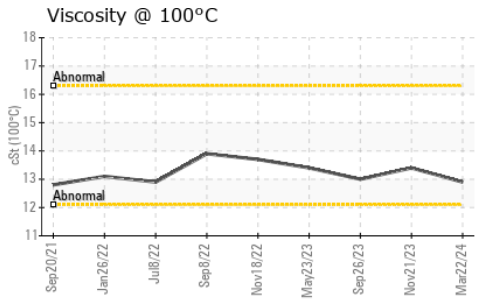
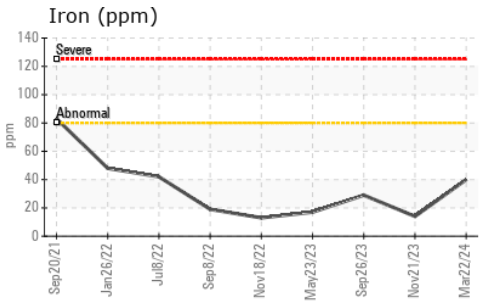


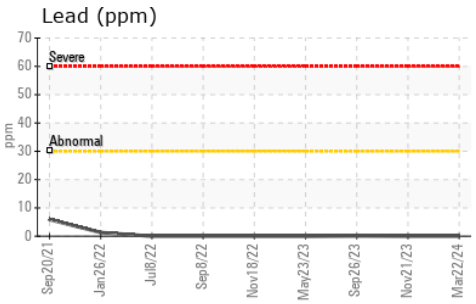
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.8**	15.1	16.0

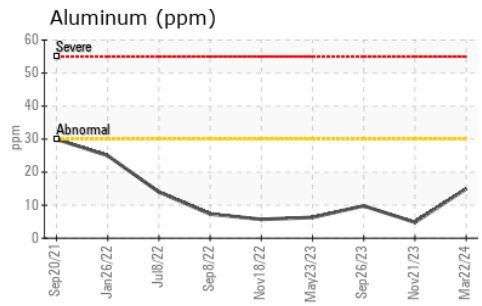
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

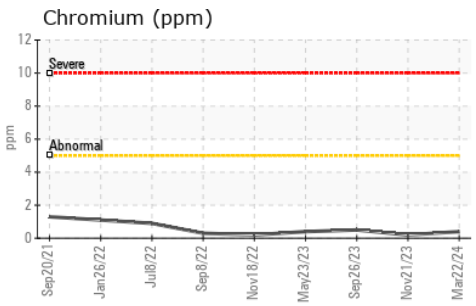
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		**12.9**	13.4	13.0

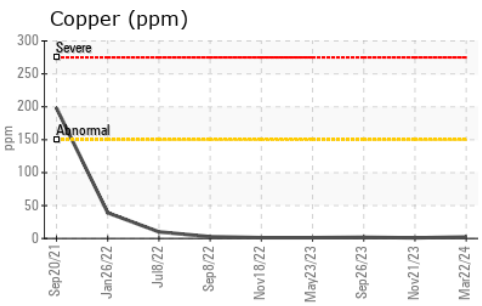
GRAPHS

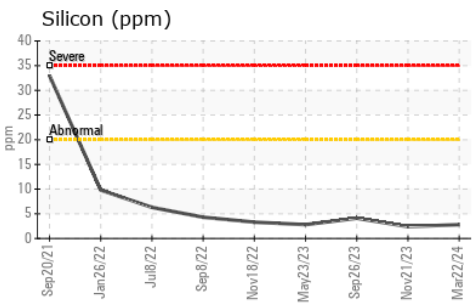


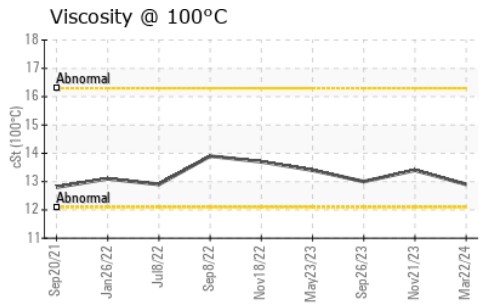


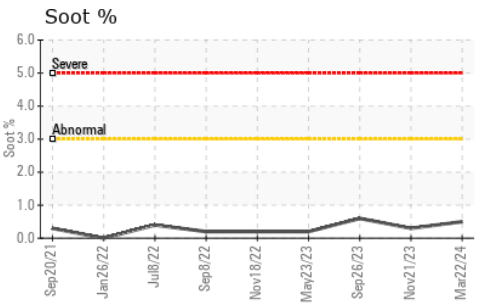












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0093121
Lab Number : 02624831
Unique Number : 5749950
Test Package : MOB 1

Received : 27 Mar 2024
Tested : 27 Mar 2024
Diagnosed : 27 Mar 2024 - Wes Davis

GFL Environmental - 860 - Fredericton
160 BLIZZARD ST
FREDERICTION, NB
CA E3B 8K2
Contact: Crystal Beach-Nassuai
cbeachnassuai@gflenv.com
T:
F:

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.