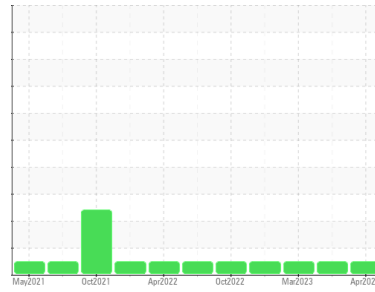




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

301216

Component

Gasoline Engine

Fluid

CASTROL EDGE SLX PRO OE 5W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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		GFL0096818	GFL0073048	GFL0073166
Sample Date	Client Info		24 Apr 2024	01 Jun 2023	23 Mar 2023
Machine Age	kms	Client Info	0	224836	7243
Oil Age	kms	Client Info	0	0	600
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<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) >150	64	52	19
Chromium	ppm	ASTM D5185(m) >20	<1	2	<1
Nickel	ppm	ASTM D5185(m) >5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	6	13	<1
Silver	ppm	ASTM D5185(m) >2	0	0	0
Aluminum	ppm	ASTM D5185(m) >40	4	7	3
Lead	ppm	ASTM D5185(m) >50	0	<1	4
Copper	ppm	ASTM D5185(m) >155	6	7	3
Tin	ppm	ASTM D5185(m) >10	0	0	1
Antimony	ppm	ASTM D5185(m)	0	0	<1
Vanadium	ppm	ASTM D5185(m)	0	<1	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)	17	25	2
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)	64	78	61
Manganese	ppm	ASTM D5185(m)	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	871	658	981
Calcium	ppm	ASTM D5185(m) 1925	926	904	1120
Phosphorus	ppm	ASTM D5185(m)	814	644	1102
Zinc	ppm	ASTM D5185(m) 840	989	705	1230
Sulfur	ppm	ASTM D5185(m)	2070	1626	2573
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >30	4	7	6
Sodium	ppm	ASTM D5185(m) >400	13	16	3
Potassium	ppm	ASTM D5185(m) >20	<1	2	<1

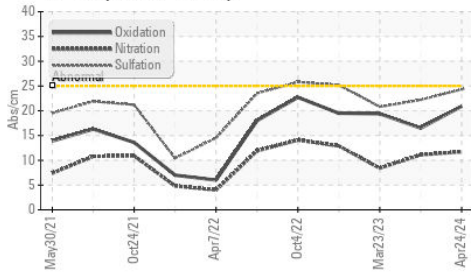
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	0	0
Nitration	Abs/cm	ASTM D7624* >20	11.7	11.1	8.4
Sulfation	Abs/.1mm	ASTM D7415* >30	24.3	22.2	20.8

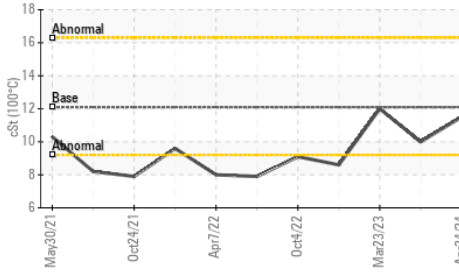


OIL ANALYSIS REPORT

FT-IR (Direct Trend)



Viscosity @ 100°C



FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	16.5	19.4

VISUAL

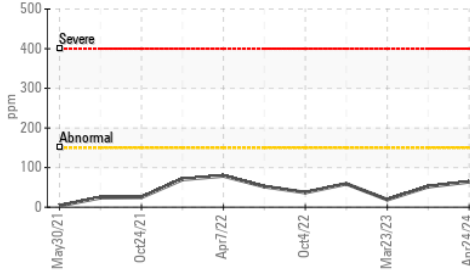
method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	>0.2	NEG	NEG
Free Water	scalar Visual*	NEG	NEG	NEG

FLUID PROPERTIES

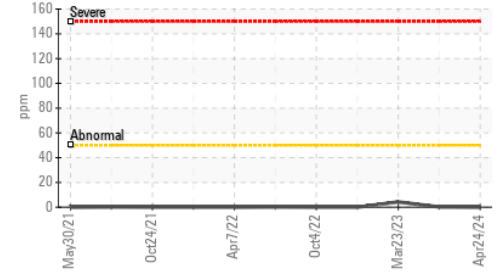
method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	12.1	11.5	10.0

GRAPHS

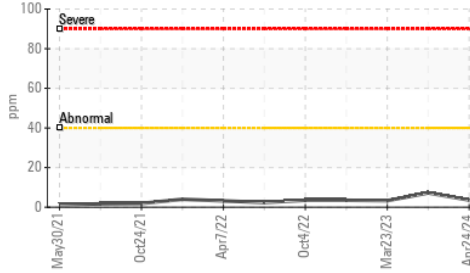
Iron (ppm)



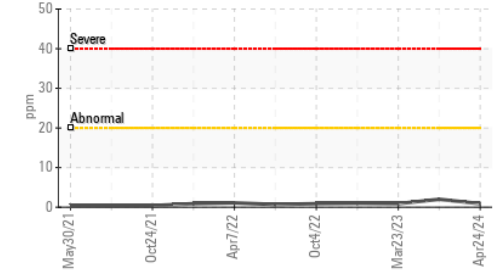
Lead (ppm)



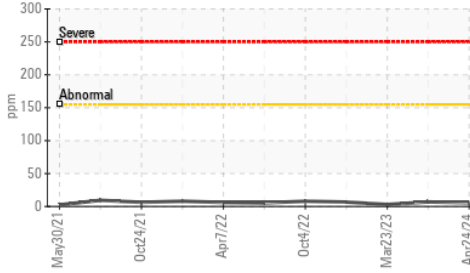
Aluminum (ppm)



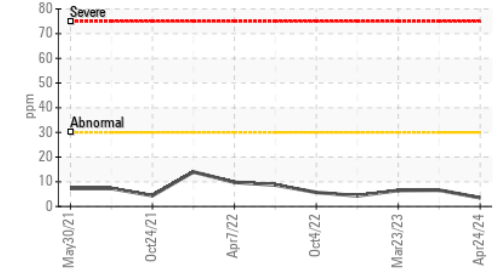
Chromium (ppm)



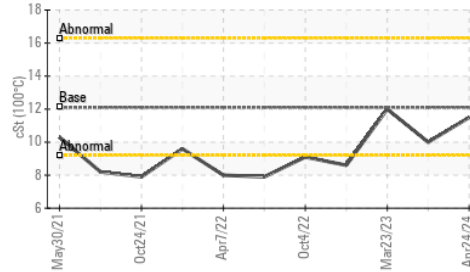
Copper (ppm)



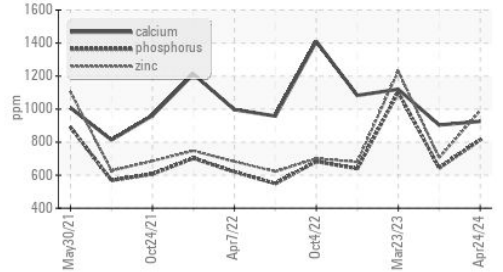
Silicon (ppm)



Viscosity @ 100°C



Additives



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096818
Lab Number : 02634857
Unique Number : 5776010
Test Package : MOB 1

GFL Environmental - 574 - Vancouver Fleet
 70 Golden Drive,
 Coquitlam, BC
 CA V3K 6B5
 Contact: Allison Adams
 aadams@gflenv.com
 T: (604)529-4023
 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.