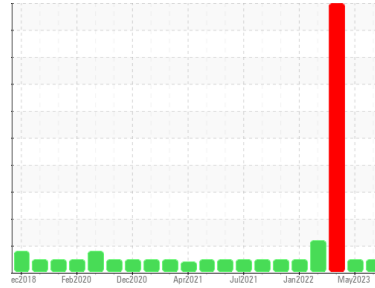




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3802C

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (12 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Hours were off)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0050903	GFL0069711	GFL0043291
Sample Date	Client Info	01 Sep 2023	19 May 2023	02 Mar 2022
Machine Age	hrs	8155	7564	6803
Oil Age	hrs	8155	7564	186
Oil Changed	Client Info	Changed	Changed	N/A
Sample Status		NORMAL	NORMAL	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	---	0.20

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	5	5	25
Chromium	ppm	ASTM D5185m >4	<1	<1	3
Nickel	ppm	ASTM D5185m >2	0	0	1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	<1	0	12
Lead	ppm	ASTM D5185m >30	0	<1	4
Copper	ppm	ASTM D5185m >35	<1	1	3
Tin	ppm	ASTM D5185m >4	0	<1	<1
Antimony	ppm	ASTM D5185m	---	---	<1
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 50	27	21	145
Barium	ppm	ASTM D5185m 5	0	0	0
Molybdenum	ppm	ASTM D5185m 50	61	56	459
Manganese	ppm	ASTM D5185m 0	<1	<1	1
Magnesium	ppm	ASTM D5185m 560	650	629	505
Calcium	ppm	ASTM D5185m 1510	1601	1536	1534
Phosphorus	ppm	ASTM D5185m 780	844	773	789
Zinc	ppm	ASTM D5185m 870	1009	993	885
Sulfur	ppm	ASTM D5185m 2040	2990	2737	2085

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	9	15	55
Sodium	ppm	ASTM D5185m	15	36	5959
Potassium	ppm	ASTM D5185m >20	0	4	197

INFRA-RED

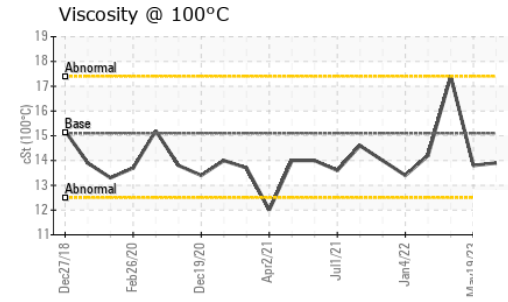
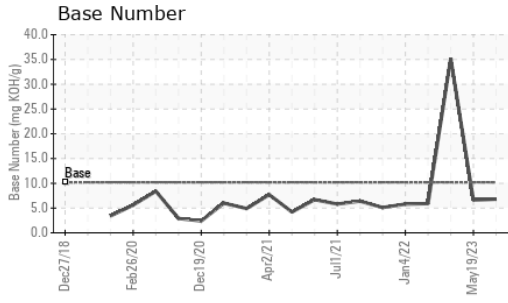
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	8.3	8.9	14.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.1	20.1	24.6

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.5	16.5	17.1
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	6.8	6.6	35.2



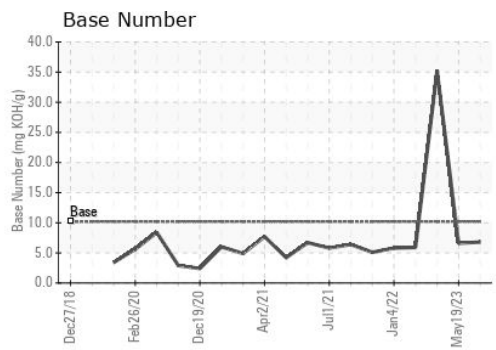
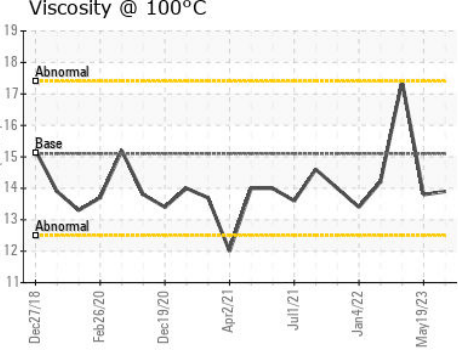
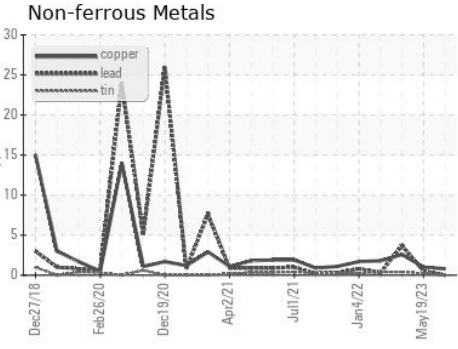
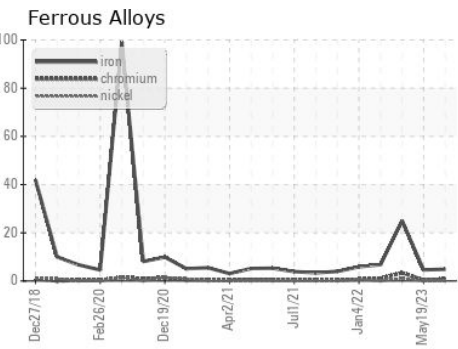
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	13.8	17.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0050903 **Received** : 05 Sep 2023
Lab Number : **05941760** **Diagnosed** : 06 Sep 2023
Unique Number : 10632372 **Diagnostician** : Sean Felton
Test Package : FLEET

GFL Environmental - 031 - Greenville/Spartanburg
 1635 Antioch Church Rd
 Piedmont, SC
 US 29673
 Contact: TECHNICIAN ACCOUNT
 catherine.anastasio@wearcheck.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: