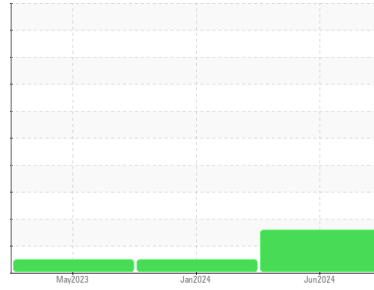




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id

741010

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Bearing and/or bushing wear is indicated. Valve wear is indicated.

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 acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0114770	GFL0102756	GFL0082286
Sample Date	Client Info	25 Jun 2024	22 Jan 2024	09 May 2023
Machine Age	hrs	8172	7033	30655
Oil Age	hrs	0	6112	0
Oil Changed	Client Info	Not Chngd	N/A	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	27	19	23
Chromium	ppm ASTM D5185m >4	2	1	3
Nickel	ppm ASTM D5185m >2	▲ 6	1	<1
Titanium	ppm ASTM D5185m	<1	0	<1
Silver	ppm ASTM D5185m >3	<1	0	0
Aluminum	ppm ASTM D5185m >9	4	3	<1
Lead	ppm ASTM D5185m >30	5	11	2
Copper	ppm ASTM D5185m >35	▲ 58	0	3
Tin	ppm ASTM D5185m >4	2	1	<1
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	49	7	7
Barium	ppm ASTM D5185m 5	1	<1	0
Molybdenum	ppm ASTM D5185m 50	75	64	100
Manganese	ppm ASTM D5185m 0	2	1	<1
Magnesium	ppm ASTM D5185m 560	619	590	655
Calcium	ppm ASTM D5185m 1510	1508	1568	1611
Phosphorus	ppm ASTM D5185m 780	663	711	737
Zinc	ppm ASTM D5185m 870	910	934	942
Sulfur	ppm ASTM D5185m 2040	2205	2292	3143

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	25	5	6
Sodium	ppm ASTM D5185m	7	11	7
Potassium	ppm ASTM D5185m >20	4	2	1

INFRA-RED

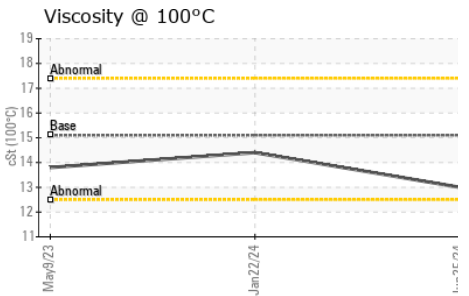
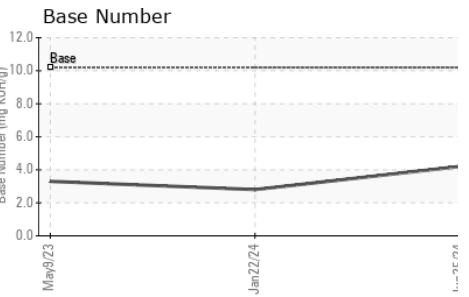
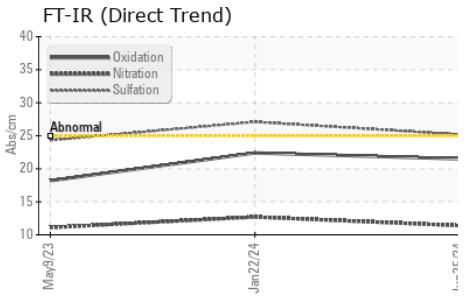
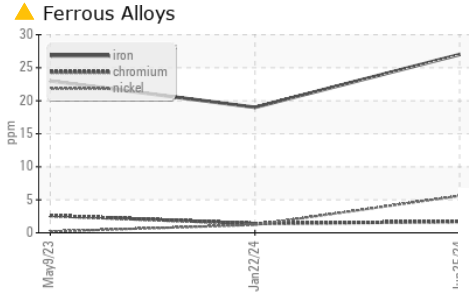
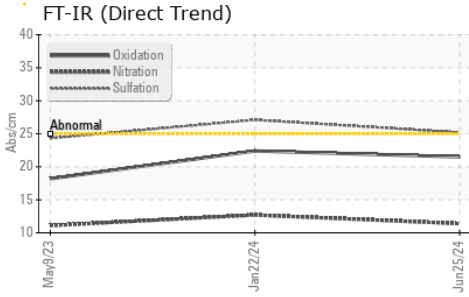
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0.2	0	0
Nitration	Abs/cm *ASTM D7624 >20	11.4	12.7	11.1
Sulfation	Abs/.1mm *ASTM D7415 >30	25.2	27.1	24.3

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	21.5	22.4	18.2
Base Number (BN)	mg KOH/g ASTM D2896 10.2	4.2	2.8	3.3



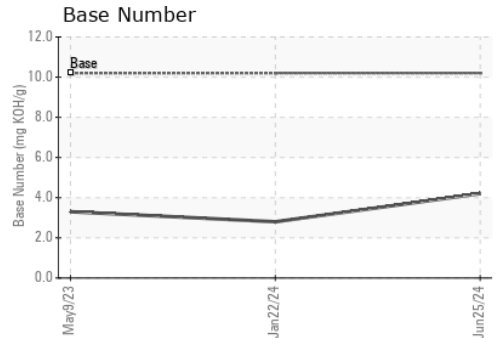
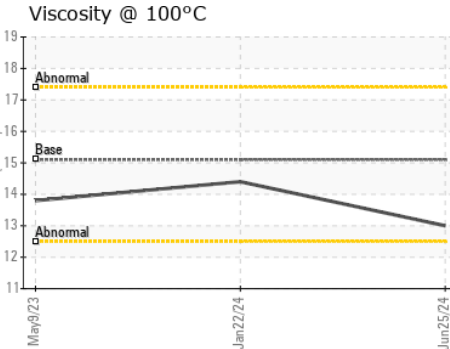
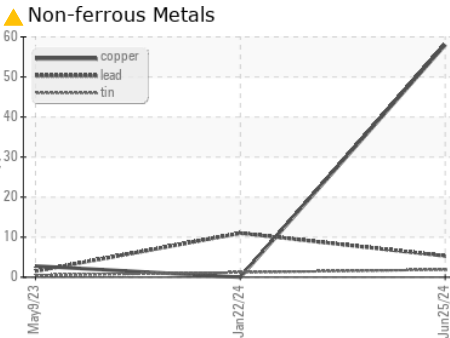
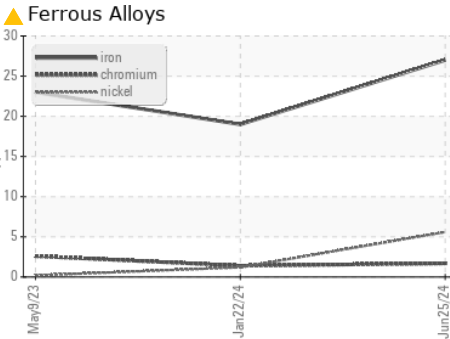
OIL ANALYSIS REPORT



PARAMETER	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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.0	14.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0114770
 Lab Number : 06223134
 Unique Number : 11101331
 Test Package : FLEET

GFL Environmental - 963 - Peoria HC Disposal
 1113 N. Swords Ave.
 West Peoria, IL
 US 61604
 Contact: Corey Dozard
 cdozard@gflenv.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: