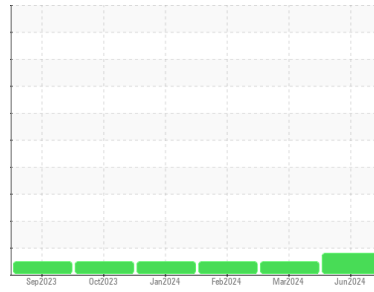




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
834046
 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

Cylinder, crank, or cam shaft wear is indicated. All other 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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0120238	GFL0114076	GFL0109778
Sample Date	Client Info		03 Jun 2024	27 Mar 2024	13 Feb 2024
Machine Age	hrs	Client Info	1380	960	673
Oil Age	hrs	Client Info	0	960	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
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	▲ 52	45	4
Chromium	ppm	ASTM D5185m >5	4	<1	<1
Nickel	ppm	ASTM D5185m >4	2	2	<1
Titanium	ppm	ASTM D5185m >5	<1	0	0
Silver	ppm	ASTM D5185m >3	0	<1	0
Aluminum	ppm	ASTM D5185m >25	6	6	5
Lead	ppm	ASTM D5185m >40	11	2	2
Copper	ppm	ASTM D5185m >150	2	9	2
Tin	ppm	ASTM D5185m >4	2	2	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	4	9	31
Barium	ppm	ASTM D5185m 5	2	0	0
Molybdenum	ppm	ASTM D5185m 50	60	53	47
Manganese	ppm	ASTM D5185m 0	1	9	<1
Magnesium	ppm	ASTM D5185m 560	536	711	544
Calcium	ppm	ASTM D5185m 1510	1893	1404	1432
Phosphorus	ppm	ASTM D5185m 780	806	749	734
Zinc	ppm	ASTM D5185m 870	1055	986	919
Sulfur	ppm	ASTM D5185m 2040	2912	2702	2392

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	18	20	7
Sodium	ppm	ASTM D5185m	11	4	4
Potassium	ppm	ASTM D5185m >20	4	4	12

INFRA-RED

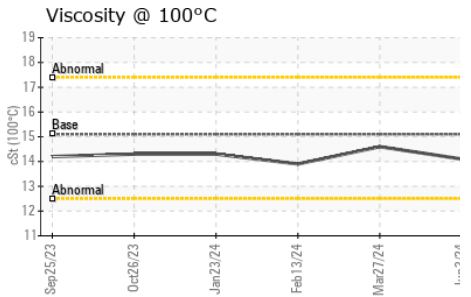
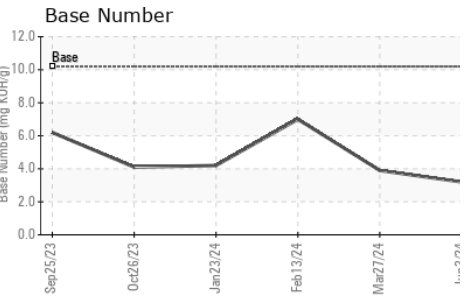
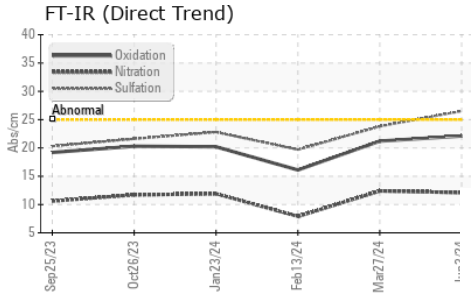
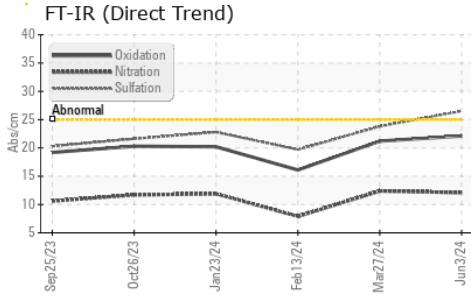
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0	0
Nitration	Abs/cm	*ASTM D7624 >20	12.1	12.4	7.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	26.5	23.8	19.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	22.1	21.2	16.1
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	3.2	3.9	7.0



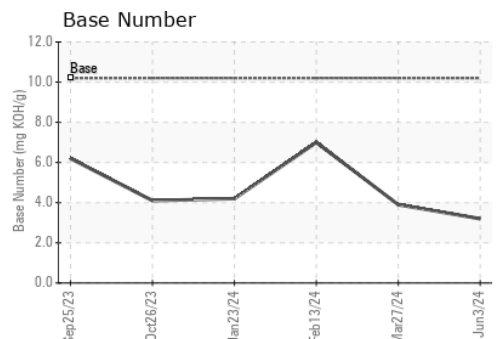
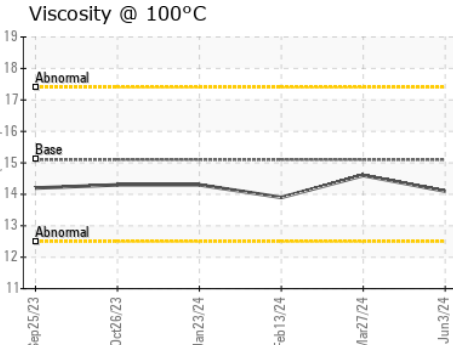
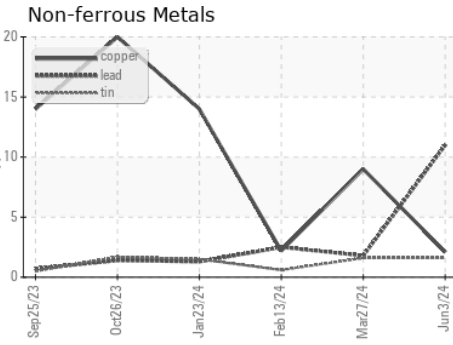
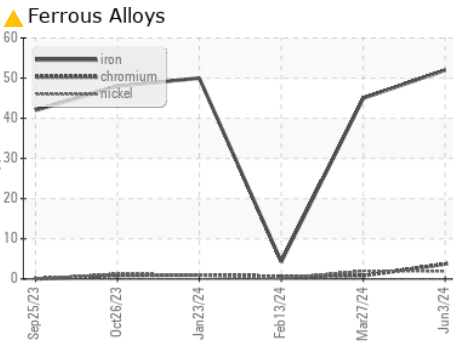
OIL ANALYSIS REPORT



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	LIGHT	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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0120238
Lab Number : 06201056
Unique Number : 11063179
Test Package : FLEET

GFL Environmental - 836 - Kansas City Hauling
 7801 East Truman Road
 Kansas City, MO
 US 64126
 Contact: Loyce Stewart
 loyce.stewart@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)

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