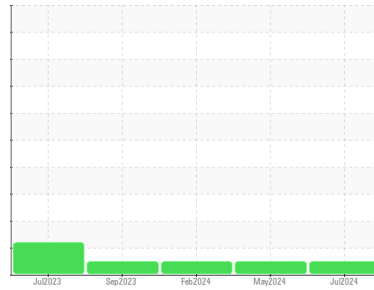




OIL ANALYSIS REPORT

Machine Id
933050
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- LTR)

Sample Rating Trend



NORMAL



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 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		GFL0106051	GFL0105940	GFL0106114
Sample Date	Client Info		08 Jul 2024	02 May 2024	21 Feb 2024
Machine Age	hrs	Client Info	3319	2777	2237
Oil Age	hrs	Client Info	600	2777	600
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	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	10	15	11
Chromium	ppm	ASTM D5185m >5	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	0	0	<1
Titanium	ppm	ASTM D5185m >5	0	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >25	4	4	4
Lead	ppm	ASTM D5185m >40	<1	2	<1
Copper	ppm	ASTM D5185m >150	1	2	2
Tin	ppm	ASTM D5185m >4	0	1	<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	2	6	8
Barium	ppm	ASTM D5185m 5	0	0	0
Molybdenum	ppm	ASTM D5185m 50	54	56	59
Manganese	ppm	ASTM D5185m 0	<1	1	1
Magnesium	ppm	ASTM D5185m 560	582	593	614
Calcium	ppm	ASTM D5185m 1510	1853	1684	1780
Phosphorus	ppm	ASTM D5185m 780	774	709	749
Zinc	ppm	ASTM D5185m 870	997	959	1030
Sulfur	ppm	ASTM D5185m 2040	2768	2748	2534

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	5	5
Sodium	ppm	ASTM D5185m	10	8	9
Potassium	ppm	ASTM D5185m >20	4	5	5

INFRA-RED

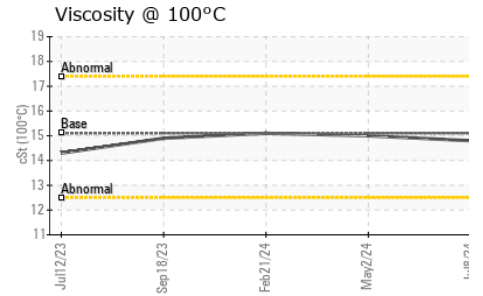
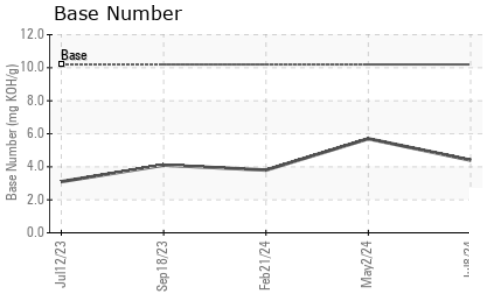
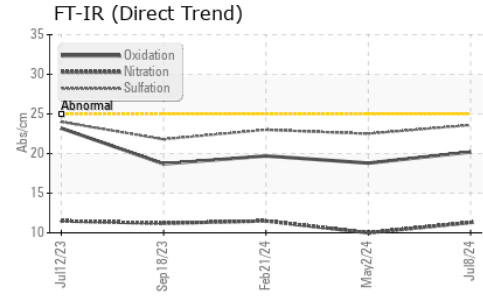
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0.4	0
Nitration	Abs/cm	*ASTM D7624 >20	11.3	10.0	11.5
Sulfation	Abs./1mm	*ASTM D7415 >30	23.6	22.5	23.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	*ASTM D7414 >25	20.2	18.8	19.7
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	4.4	5.7	3.8



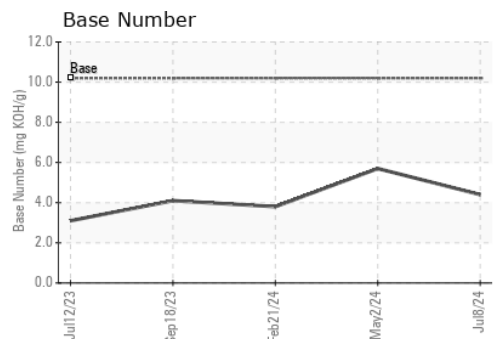
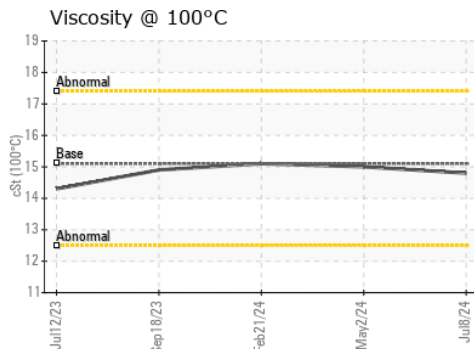
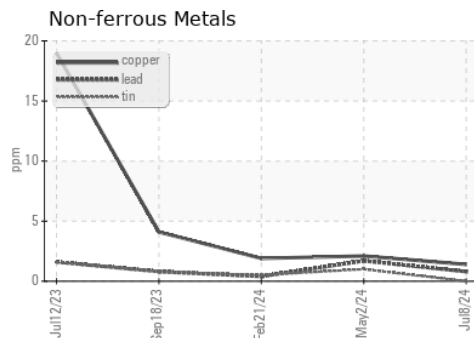
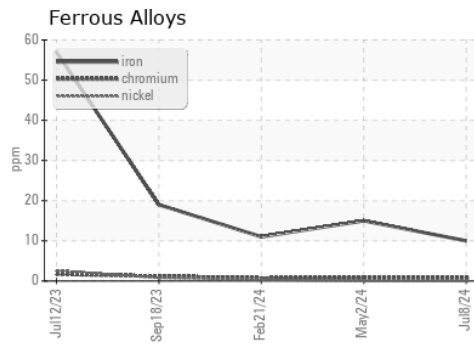
OIL ANALYSIS REPORT



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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	15.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0106051 **Received** : 11 Jul 2024
Lab Number : 06234283 **Tested** : 12 Jul 2024
Unique Number : 11123117 **Diagnosed** : 12 Jul 2024 - Wes Davis
Test Package : FLEET

GFL Environmental - 152 - Jacksonville
 7580 PHILIPS HWY
 Jacksonville, FL
 US 32256
 Contact: GRANVILLE CARROLL
 gcarroll@gflenv.com
 T: 1(904)252-6815
 F:

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)