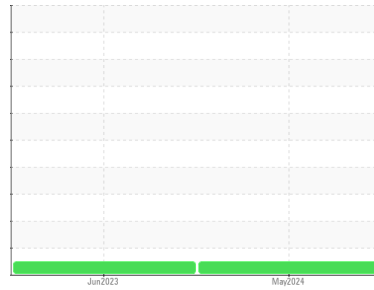




OIL ANALYSIS REPORT

Machine Id
733002
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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		GFL0114763	GFL0082267	---
Sample Date	Client Info		31 May 2024	21 Jun 2023	---
Machine Age	hrs	Client Info	3566	1250	---
Oil Age	hrs	Client Info	2316	1250	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	40	50	---
Chromium	ppm	ASTM D5185m >5	3	2	---
Nickel	ppm	ASTM D5185m >4	1	1	---
Titanium	ppm	ASTM D5185m >5	0	0	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >25	7	3	---
Lead	ppm	ASTM D5185m >40	2	0	---
Copper	ppm	ASTM D5185m >150	2	8	---
Tin	ppm	ASTM D5185m >4	2	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	22	14	---
Barium	ppm	ASTM D5185m 5	<1	0	---
Molybdenum	ppm	ASTM D5185m 50	77	71	---
Manganese	ppm	ASTM D5185m 0	2	6	---
Magnesium	ppm	ASTM D5185m 560	843	789	---
Calcium	ppm	ASTM D5185m 1510	2251	1812	---
Phosphorus	ppm	ASTM D5185m 780	1178	894	---
Zinc	ppm	ASTM D5185m 870	1354	1105	---
Sulfur	ppm	ASTM D5185m 2040	3232	2989	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	10	15	---
Sodium	ppm	ASTM D5185m	8	5	---
Potassium	ppm	ASTM D5185m >20	11	5	---

INFRA-RED

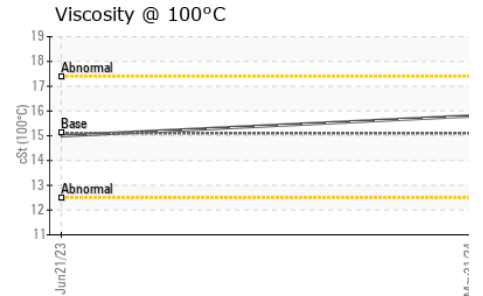
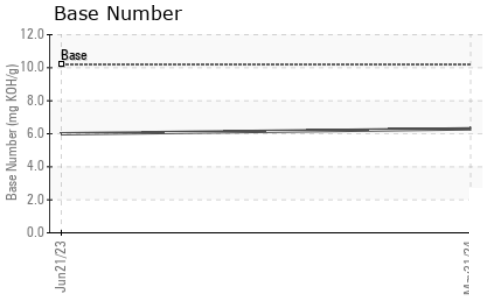
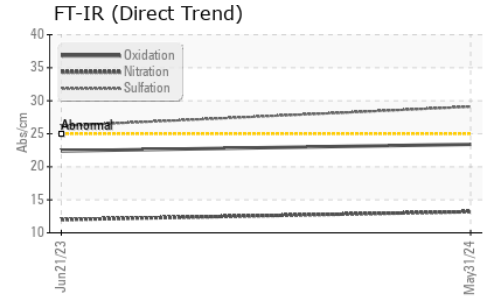
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	13.2	12.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	29.1	26.2	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	23.4	22.4	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	6.3	6.0	---



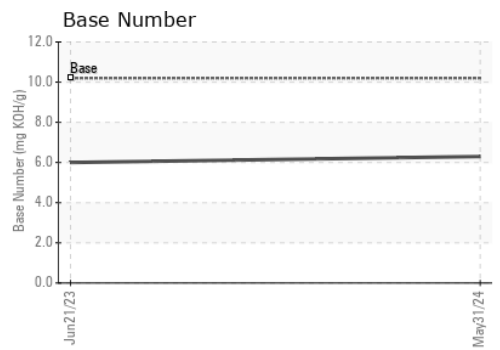
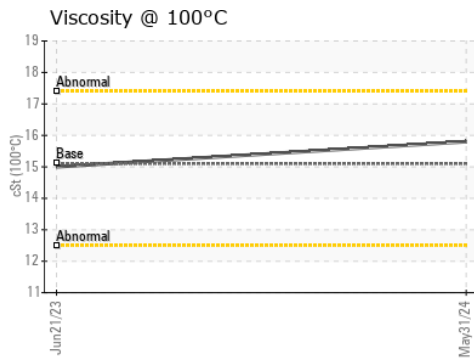
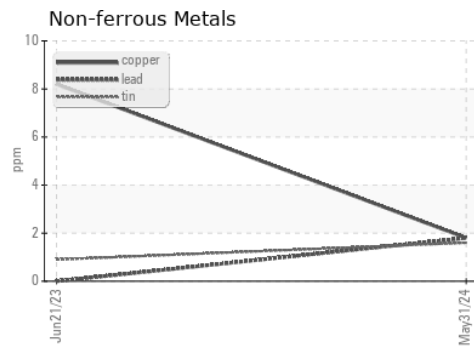
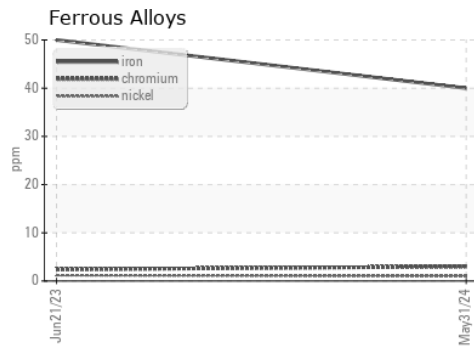
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	15.8	15.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114763 **Received** : 06 Jun 2024
Lab Number : 06201193 **Tested** : 07 Jun 2024
Unique Number : 11063316 **Diagnosed** : 09 Jun 2024 - Don Baldrige
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)