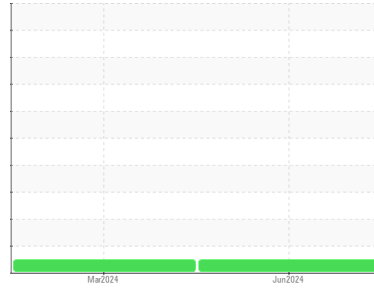




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(TVF8498)

Machine Id
734024

Component
Natural Gas Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample)

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			GFL0125182	GFL0114407	---
Sample Date	Client Info			29 Jun 2024	27 Mar 2024	---
Machine Age	hrs	Client Info		1423	8106	---
Oil Age	hrs	Client Info		1423	8106	---
Oil Changed	Client Info			Not 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	15	39	---
Chromium	ppm	ASTM D5185m	>4	<1	0	---
Nickel	ppm	ASTM D5185m	>2	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>9	6	11	---
Lead	ppm	ASTM D5185m	>30	<1	<1	---
Copper	ppm	ASTM D5185m	>35	6	17	---
Tin	ppm	ASTM D5185m	>4	<1	<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	8	6	---
Barium	ppm	ASTM D5185m	5	<1	2	---
Molybdenum	ppm	ASTM D5185m	50	54	53	---
Manganese	ppm	ASTM D5185m	0	3	14	---
Magnesium	ppm	ASTM D5185m	560	597	813	---
Calcium	ppm	ASTM D5185m	1510	1695	1370	---
Phosphorus	ppm	ASTM D5185m	780	725	733	---
Zinc	ppm	ASTM D5185m	870	995	927	---
Sulfur	ppm	ASTM D5185m	2040	2909	2837	---

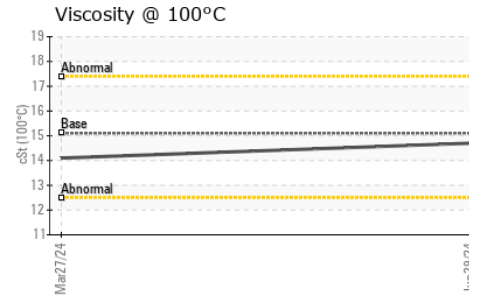
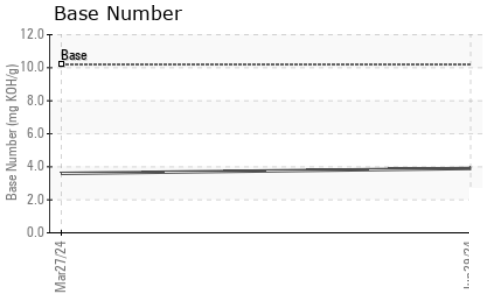
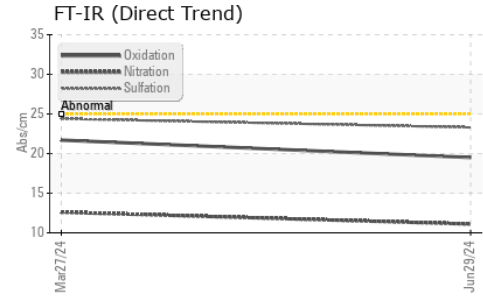
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	9	33	---
Sodium	ppm	ASTM D5185m		7	5	---
Potassium	ppm	ASTM D5185m	>20	25	45	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	11.1	12.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	24.4	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	21.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.9	3.6	---



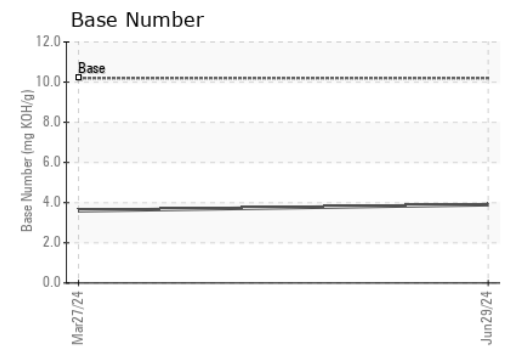
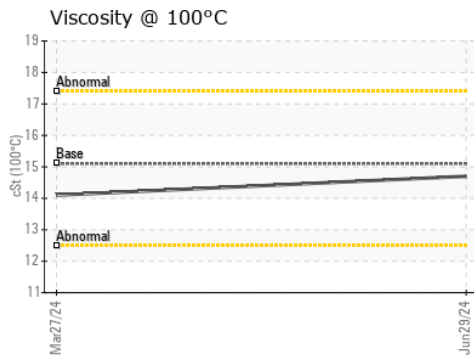
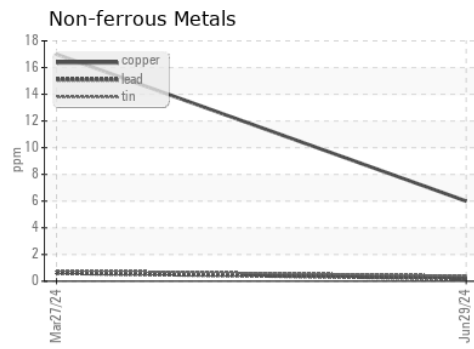
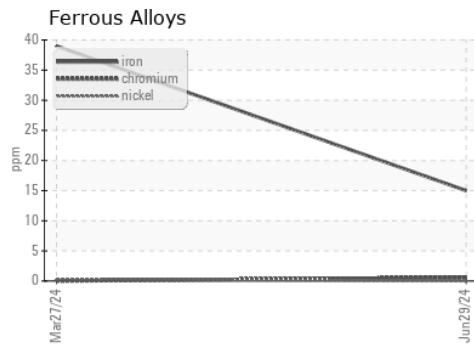
OIL ANALYSIS REPORT



VISUAL	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	14.7	14.1

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0125182 **Received** : 05 Jul 2024
Lab Number : 06229576 **Tested** : 09 Jul 2024
Unique Number : 11113069 **Diagnosed** : 09 Jul 2024 - Jonathan Hester
Test Package : FLEET

GFL Environmental - 865 - East Mount Hauling
 7213 East Mount Houston Road
 Houston, TX
 US 77050
 Contact: Saul Castillo
 saul.castillo@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)