



PROBLEM SUMMARY

Sample Rating Trend

DEGRADATION



Machine Id
441000
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)



COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	▲ 2.0	---	---

Customer Id: GFL963
 Sample No.: GFL0090383
 Lab Number: 06026016
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id
441000
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)



DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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 level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0090383	---	---
Sample Date	Client Info	01 Dec 2023	---	---
Machine Age	hrs Client Info	7044	---	---
Oil Age	hrs Client Info	7044	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	39	---	---
Chromium	ppm ASTM D5185m >4	5	---	---
Nickel	ppm ASTM D5185m >2	2	---	---
Titanium	ppm ASTM D5185m	<1	---	---
Silver	ppm ASTM D5185m >3	0	---	---
Aluminum	ppm ASTM D5185m >9	5	---	---
Lead	ppm ASTM D5185m >30	17	---	---
Copper	ppm ASTM D5185m >35	5	---	---
Tin	ppm ASTM D5185m >4	2	---	---
Vanadium	ppm ASTM D5185m	<1	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	11	---	---
Barium	ppm ASTM D5185m 5	0	---	---
Molybdenum	ppm ASTM D5185m 50	81	---	---
Manganese	ppm ASTM D5185m 0	3	---	---
Magnesium	ppm ASTM D5185m 560	744	---	---
Calcium	ppm ASTM D5185m 1510	1982	---	---
Phosphorus	ppm ASTM D5185m 780	956	---	---
Zinc	ppm ASTM D5185m 870	1190	---	---
Sulfur	ppm ASTM D5185m 2040	2472	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	9	---	---
Sodium	ppm ASTM D5185m	11	---	---
Potassium	ppm ASTM D5185m >20	<1	---	---

INFRA-RED

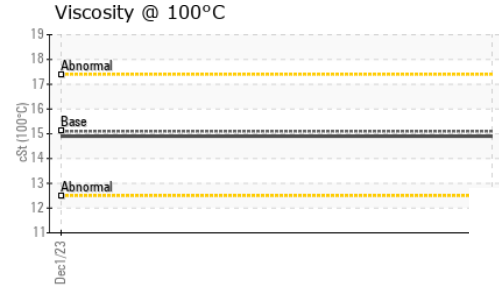
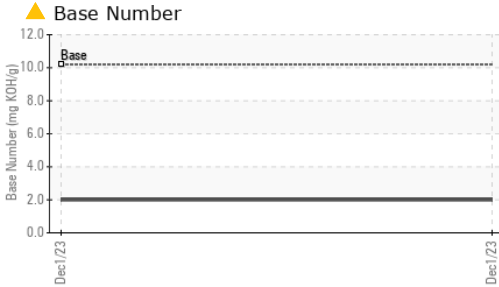
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0	---	---
Nitration	Abs/cm *ASTM D7624 >20	13.2	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	33.1	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	30.9	---	---
Base Number (BN)	mg KOH/g ASTM D2896 10.2	▲ 2.0	---	---



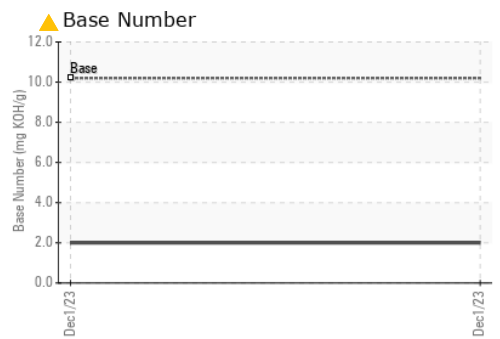
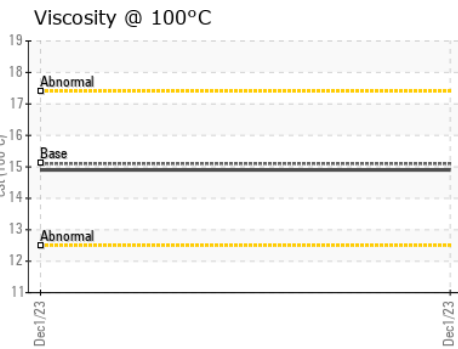
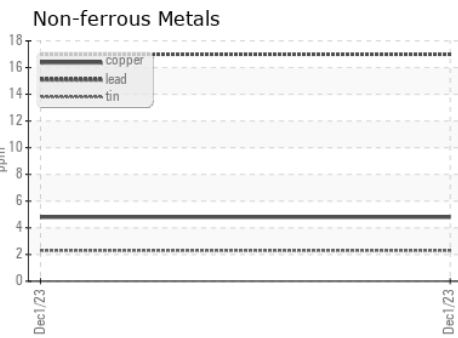
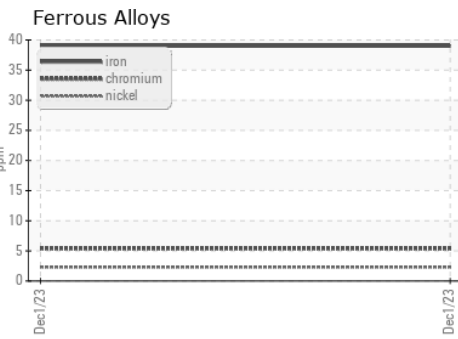
OIL ANALYSIS REPORT



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	14.9	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0090383 **Received** : 06 Dec 2023
Lab Number : 06026016 **Diagnosed** : 07 Dec 2023
Unique Number : 10775807 **Diagnostician** : Jonathan Hester
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)