



PROBLEM SUMMARY

Sample Rating Trend

WEAR

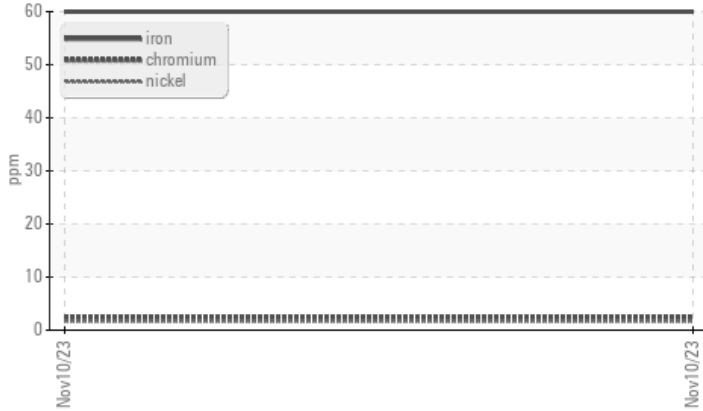


Machine Id
933036
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON SHP 15W40 (5 GAL)



COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>50	▲ 60	---	---

Customer Id: GFL095
Sample No.: GFL0074640
Lab Number: 06007476
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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

WEAR



Machine Id
933036
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (5 GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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	GFL0074640	---	---
Sample Date	Client Info	10 Nov 2023	---	---
Machine Age	hrs	Client Info	1143	---
Oil Age	hrs	Client Info	1143	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	▲ 60	---
Chromium	ppm	ASTM D5185m >5	2	---
Nickel	ppm	ASTM D5185m >4	2	---
Titanium	ppm	ASTM D5185m >5	0	---
Silver	ppm	ASTM D5185m >3	<1	---
Aluminum	ppm	ASTM D5185m >25	19	---
Lead	ppm	ASTM D5185m >40	2	---
Copper	ppm	ASTM D5185m >150	12	---
Tin	ppm	ASTM D5185m >4	2	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	5	---
Barium	ppm	ASTM D5185m 0	0	---
Molybdenum	ppm	ASTM D5185m 60	63	---
Manganese	ppm	ASTM D5185m 0	12	---
Magnesium	ppm	ASTM D5185m 1010	911	---
Calcium	ppm	ASTM D5185m 1070	1042	---
Phosphorus	ppm	ASTM D5185m 1150	891	---
Zinc	ppm	ASTM D5185m 1270	1181	---
Sulfur	ppm	ASTM D5185m 2060	2425	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	18	---
Sodium	ppm	ASTM D5185m	3	---
Potassium	ppm	ASTM D5185m >20	52	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	---
Nitration	Abs/cm	*ASTM D7624 >20	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.9	---

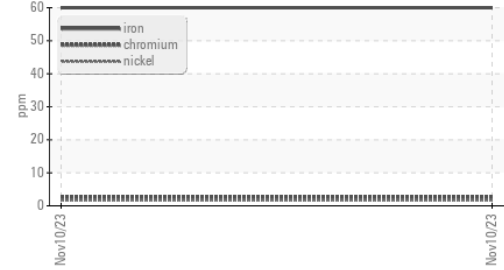
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	19.4	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	3.9	---



OIL ANALYSIS REPORT

▲ Ferrous Alloys



Base Number



Viscosity @ 100°C

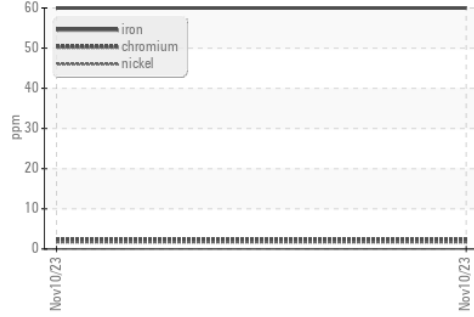


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

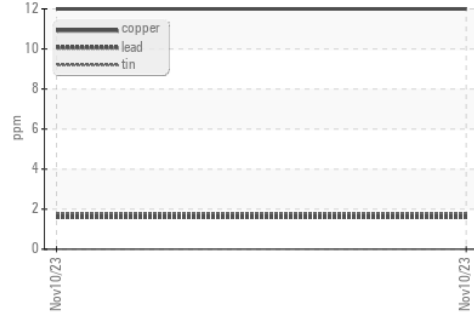
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	---	---

GRAPHS

▲ Ferrous Alloys



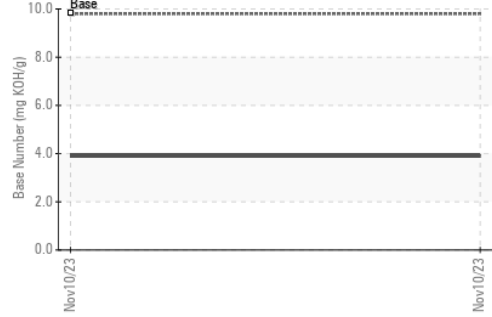
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0074640 **Received** : 14 Nov 2023
Lab Number : 06007476 **Diagnosed** : 16 Nov 2023
Unique Number : 10741238 **Diagnostician** : Don Baldrige
Test Package : FLEET

GFL Environmental - 095 - Atlanta West
 2699 Cochran Industrial Blvd
 Douglasville, GA
 US 30127-1332
 Contact: Darrell Welch
 darrell.welch@gflenv.com
 T: (800)207-6618
 F:

Certificate L2367
 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)