

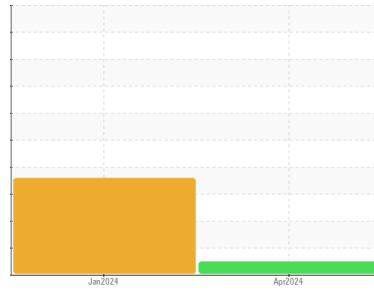


OIL ANALYSIS REPORT



Machine Id
834037
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (21 QTS)

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		GFL0114539	GFL0074619	---
Sample Date	Client Info		18 Apr 2024	12 Jan 2024	---
Machine Age	hrs	Client Info	1735	1194	---
Oil Age	hrs	Client Info	0	1194	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			NORMAL	ABNORMAL	---

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	27	▲ 51	---
Chromium	ppm	ASTM D5185m >5	<1	2	---
Nickel	ppm	ASTM D5185m >4	0	2	---
Titanium	ppm	ASTM D5185m >5	0	0	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >25	3	5	---
Lead	ppm	ASTM D5185m >40	1	3	---
Copper	ppm	ASTM D5185m >150	3	15	---
Tin	ppm	ASTM D5185m >4	2	2	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	1	---
Barium	ppm	ASTM D5185m 0	0	0	---
Molybdenum	ppm	ASTM D5185m 60	72	64	---
Manganese	ppm	ASTM D5185m 0	2	13	---
Magnesium	ppm	ASTM D5185m 1010	976	911	---
Calcium	ppm	ASTM D5185m 1070	1227	1289	---
Phosphorus	ppm	ASTM D5185m 1150	980	850	---
Zinc	ppm	ASTM D5185m 1270	1227	1040	---
Sulfur	ppm	ASTM D5185m 2060	3218	2157	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	▲ 26	---
Sodium	ppm	ASTM D5185m	5	7	---
Potassium	ppm	ASTM D5185m >20	3	8	---

INFRA-RED

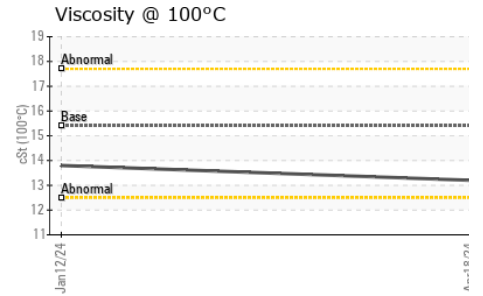
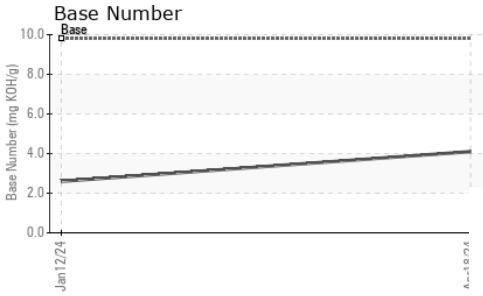
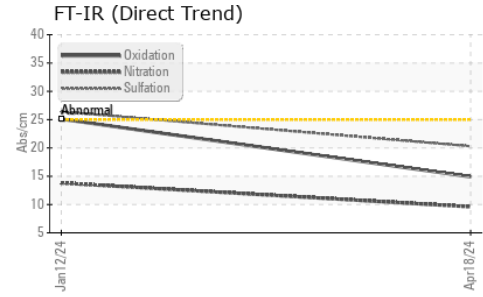
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	---
Nitration	Abs/cm	*ASTM D7624 >20	9.6	13.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.3	26.4	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.9	25.1	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	4.1	▲ 2.6	---



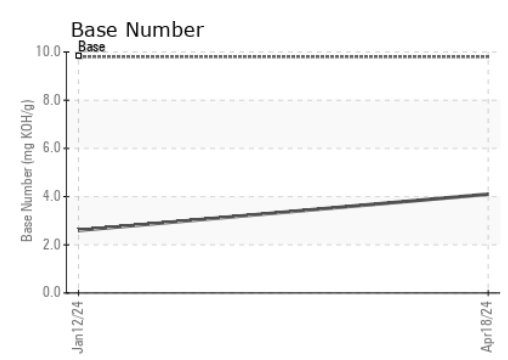
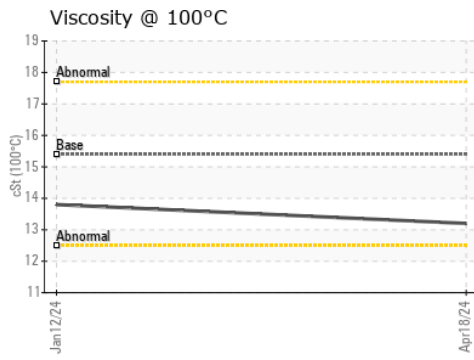
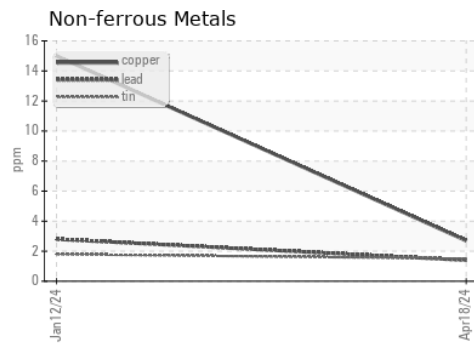
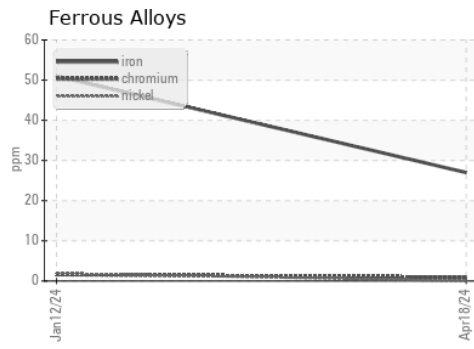
OIL ANALYSIS REPORT



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	15.4	13.2	13.8	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114539 **Received** : 19 Apr 2024
Lab Number : **06154079** **Tested** : 22 Apr 2024
Unique Number : 10989502 **Diagnosed** : 22 Apr 2024 - Wes Davis
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:

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)