

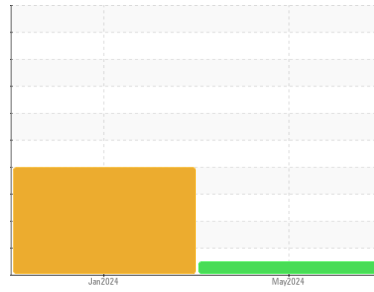


OIL ANALYSIS REPORT



Machine Id
834026
 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		GFL0114537	GFL0074643	---
Sample Date	Client Info		08 May 2024	17 Jan 2024	---
Machine Age	hrs	Client Info	1799	1121	---
Oil Age	hrs	Client Info	678	1121	---
Oil Changed	Client Info		Not Changed	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	28	47	---
Chromium	ppm	ASTM D5185m	>5	<1	2	---
Nickel	ppm	ASTM D5185m	>4	<1	2	---
Titanium	ppm	ASTM D5185m	>5	0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>25	3	6	---
Lead	ppm	ASTM D5185m	>40	2	4	---
Copper	ppm	ASTM D5185m	>150	2	14	---
Tin	ppm	ASTM D5185m	>4	1	2	---
Vanadium	ppm	ASTM D5185m		0	<1	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	1	---
Barium	ppm	ASTM D5185m	0	0	3	---
Molybdenum	ppm	ASTM D5185m	60	72	54	---
Manganese	ppm	ASTM D5185m	0	2	11	---
Magnesium	ppm	ASTM D5185m	1010	902	805	---
Calcium	ppm	ASTM D5185m	1070	1144	1116	---
Phosphorus	ppm	ASTM D5185m	1150	950	744	---
Zinc	ppm	ASTM D5185m	1270	1222	955	---
Sulfur	ppm	ASTM D5185m	2060	3016	2099	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	25	---
Sodium	ppm	ASTM D5185m		6	4	---
Potassium	ppm	ASTM D5185m	>20	4	8	---

INFRA-RED

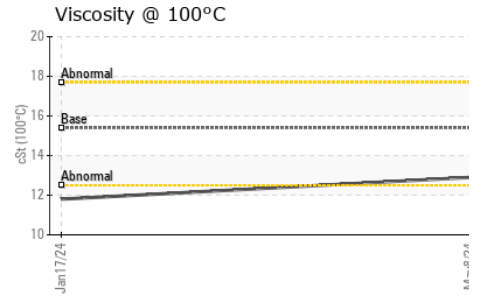
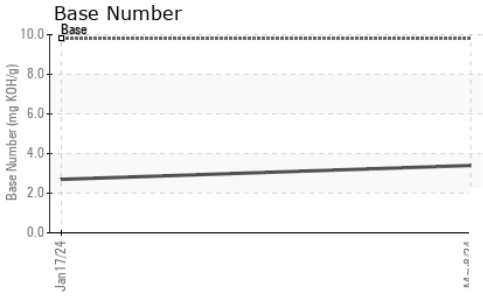
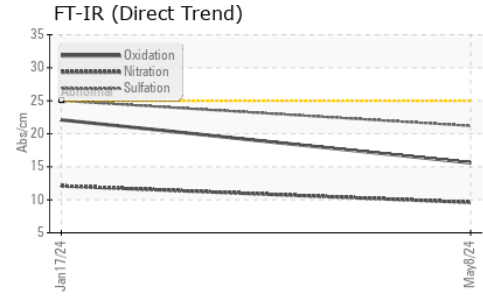
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	9.6	12.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	25.0	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	22.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	3.4	2.7	---



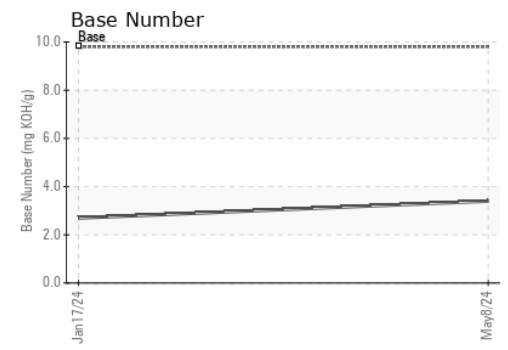
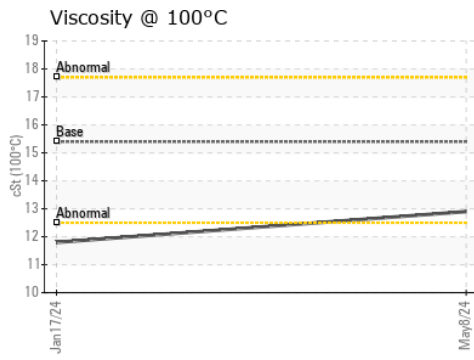
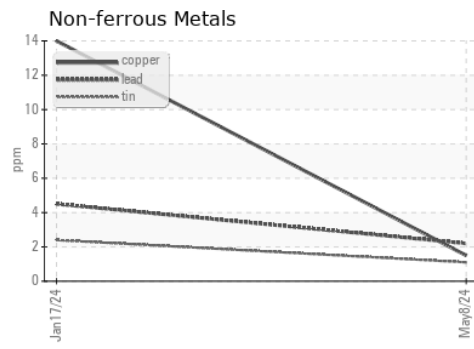
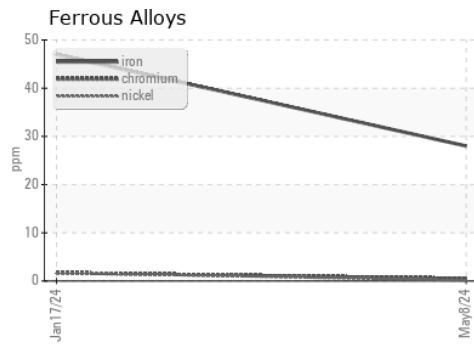
OIL ANALYSIS REPORT



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	15.4	12.9	11.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114537 **Received** : 10 May 2024
Lab Number : 06175306 **Tested** : 13 May 2024
Unique Number : 11021359 **Diagnosed** : 13 May 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)