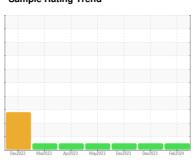


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **833012** 

Component

Natural Gas Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

## 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**

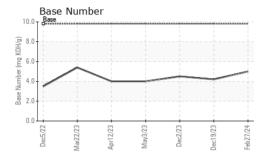
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

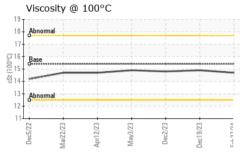
LTR)		Dec2022	Mar2023 Apr2023	May2023 Dec2023 Dec2023	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106842	GFL0092002	GFL0092093
Sample Date		Client Info		27 Feb 2024	19 Dec 2023	02 Dec 2023
Machine Age	hrs	Client Info		4822	4274	17547
Oil Age	hrs	Client Info		600	600	17547
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	6	12	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	1
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>35	<1	2	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	10	7
Barium	ppm	ASTM D5185m	0	0	<1	2
Molybdenum	ppm	ASTM D5185m	60	50	62	51
Manganese	ppm	ASTM D5185m	0	<1	1	0
Magnesium	ppm	ASTM D5185m	1010	533	648	502
Calcium	ppm	ASTM D5185m	1070	1512	1910	1534
Phosphorus	ppm	ASTM D5185m	1150	685	856	633
Zinc	ppm	ASTM D5185m	1270	950	1133	900
Sulfur	ppm	ASTM D5185m	2060	2260	2650	2478
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	5	4
Sodium	ppm	ASTM D5185m		6	12	8
Potassium	ppm	ASTM D5185m	>20	<1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.1	11.8	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	23.2	21.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	19.2	18.6

Base Number (BN) mg KOH/g ASTM D2896 9.8 5.0



# **OIL ANALYSIS REPORT**

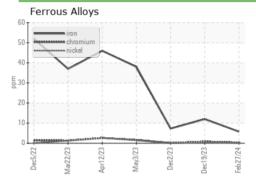


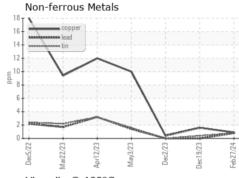


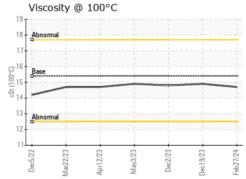
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

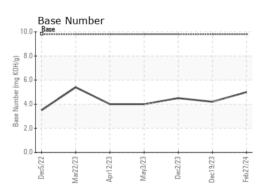
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.9	14.8

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0106842 Lab Number : 06105866 Unique Number : 10909363

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested** : 02 Mar 2024

Diagnosed : 04 Mar 2024 - Don Baldridge

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX

US 77083 Contact: Apolinar Zacarias pzacariascano@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)

T:

F: