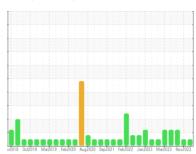


# **OIL ANALYSIS REPORT**

**Sample Rating Trend** 



NORMAL



## Machine Id 10863 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (13 GAL)

## 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

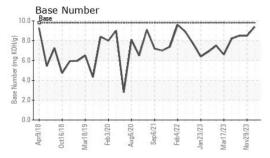
## **Fluid Condition**

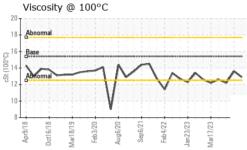
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

12018 0:2018 Maž019 Fab2020 Augž020 Sap2021 Fab2022 Janž023 Maž023 Maž023 Mozč023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107180	GFL0101228	GFL0094337
Sample Date		Client Info		30 Jan 2024	29 Nov 2023	02 Oct 2023
Machine Age	hrs	Client Info		14747	14603	14348
Oil Age	hrs	Client Info		139	395	135
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.3	<b>4.7</b>
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	7	0	29
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	1	0	7
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	0	3
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	42	9	39
Barium	ppm	ASTM D5185m	0	7	0	0
Molybdenum	ppm	ASTM D5185m	60	54	52	56
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	724	838	798
Calcium	ppm	ASTM D5185m	1070	1052	1037	1166
Phosphorus	ppm	ASTM D5185m	1150	699	969	734
Zinc	ppm	ASTM D5185m	1270	833	1127	904
Sulfur	ppm	ASTM D5185m	2060	2284	2755	2293
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	12
Sodium	ppm	ASTM D5185m		8	8	18
Potassium	ppm	ASTM D5185m	>20	3	0	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.9	4.1	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	16.4	19.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	11.8	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4	8.5	8.5



# **OIL ANALYSIS REPORT**

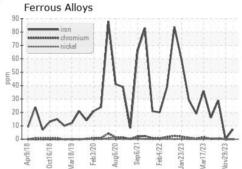


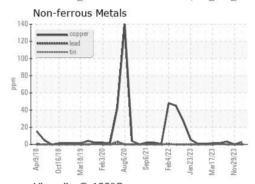


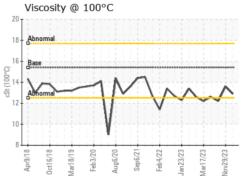
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

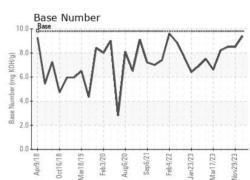
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.6	<b>▲</b> 12.2

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Test Package : FLEET

Unique Number : 10860090

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0107180 : 06077999

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Recieved Diagnosed Diagnostician : Don Baldridge

: 02 Feb 2024 : 05 Feb 2024 GFL Environmental - 010 - Stockbridge 1280 Rum Creek Parkway

Stockbridge, GA US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

> T: F:

\* - 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)