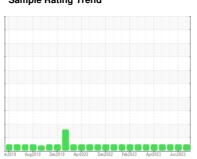


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



Machine Id **929078-205275** 

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- 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.

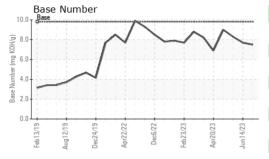
## **Fluid Condition**

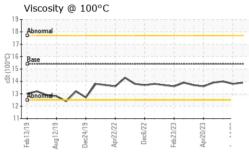
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

6/2019 Aug/2019 Dec/2019 Apr/2022 Dec/2022 Feb/2023 Apr/2023 Jun/2023						
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0082708	GFL0082700	GFL0082691
Sample Date		Client Info		03 Jul 2023	14 Jun 2023	25 May 2023
Machine Age	hrs	Client Info		13444	13298	13145
Oil Age	hrs	Client Info		146	153	160
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>100	6	6	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	<1
Lead	ppm	ASTM D5185m	>40	2	2	2
Copper	ppm	ASTM D5185m		- <1	_ <1	0
Fin	ppm	ASTM D5185m	>15	<1	<1	0
√anadium	ppm	ASTM D5185m	710	<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	1-1-	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	9	10	11
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum		ASTM D5185m	60	73	82	74
Manganese	ppm	ASTM D5185m	0	/3 <1	<1	<1
Magnesium		ASTM D5185m	1010	973	938	939
Calcium	ppm	ASTM D5185m	1070	1094	1104	1032
	ppm	ASTM D5185m	1150	1094	1026	1032
Phosphorus Zinc	ppm	ASTM D5185m	1270	1260	1254	
zinc Sulfur	ppm	ASTM D5185m	2060		3492	1255 3760
	ppm			3525		
CONTAMINAN		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m	00	3	3	3
Potassium	ppm	ASTM D5185m	>20	5	7	7
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.3	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	20.1	19.1
FLUID DEGRA	OITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.7	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.7	8.3



# **OIL ANALYSIS REPORT**

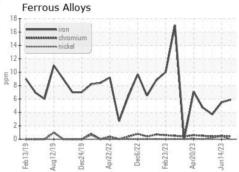


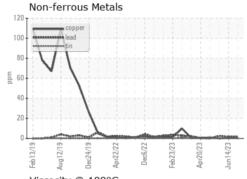


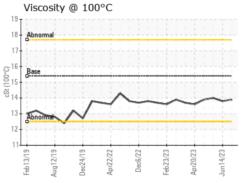
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

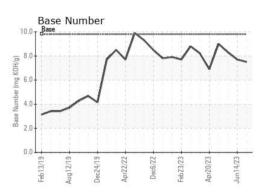
FLUID PROPE	RTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.8	14.0

## **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0082708 : 05891762

: 10547572

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jul 2023 Diagnosed : 07 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 814 - Little Rock Hauling

4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Brad Manager

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: