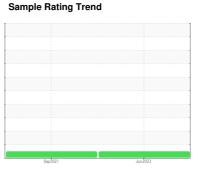


# **OIL ANALYSIS REPORT**



NORMAL



Machine Id **526036** Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- L

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

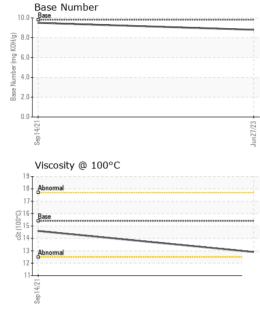
### **Fluid Condition**

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

_TR)			Sep2021	Jun2023		
SAMPLE INFORM	//ATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0082037	GFL0024519	
Sample Date		Client Info		27 Jun 2023	14 Sep 2021	
Machine Age	hrs	Client Info		1440	52576	
Oil Age	hrs	Client Info		0	600	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	5	4	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	0	<1	
Lead	ppm	ASTM D5185m	>40	2	1	
Copper	ppm	ASTM D5185m	>330	3	4	
Tin	ppm	ASTM D5185m	>15	1	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	19	50	
Barium	ppm	ASTM D5185m	0	<1	0	
Molybdenum	ppm	ASTM D5185m	60	64	39	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	892	431	
Calcium	ppm	ASTM D5185m	1070	1165	1397	
Phosphorus	ppm	ASTM D5185m	1150	991	818	
Zinc	ppm	ASTM D5185m	1270	1215	978	
Sulfur	ppm	ASTM D5185m	2060	3704	2267	
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	4	4	
Sodium	ppm	ASTM D5185m		2	7	
Potassium	ppm	ASTM D5185m	>20	2	0	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.3	5.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	21.3	
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	18.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	9.5	



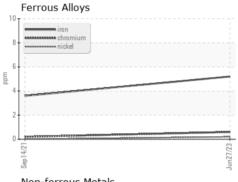
## **OIL ANALYSIS REPORT**



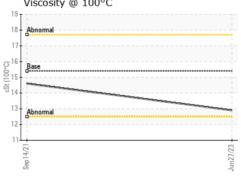
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID DDODE	DTIES					

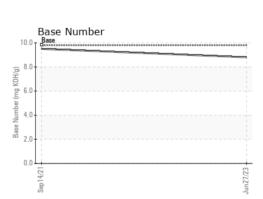
LLUID FROFI		memou			HISTORY I	filstory 2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	14.6	

### **GRAPHS**



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10535909

: GFL0082037 : 05885426 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 28 Jun 2023 Received Diagnosed : 30 Jun 2023 Diagnostician : Wes Davis

GFL Environmental - 152 - Jacksonville

7580 PHILIPS HWY Jacksonville, FL US 32256

Contact: Robert White

Submitted By: Eric Thomas

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: (904)544-8795 F: