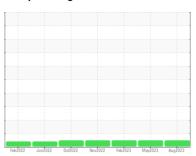


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id **812036** 

Component **Diesel Engine** 

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

## 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.

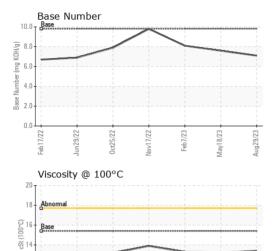
## **Fluid Condition**

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

Feb.0322 Jun.0322 Oct0922 Nev.0322 Feb.0323 May/0223 Aug/0223						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080387	GFL0080396	GFL0066723
Sample Date		Client Info		29 Aug 2023	18 May 2023	07 Feb 2023
Machine Age	hrs	Client Info		3400	2799	2252
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	9	10	7
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	_	1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	4	6	3
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>85	2	0	<1
Tin		ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m	24	<1	<1	0
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	3	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	59	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1028	1025	915
Calcium	ppm	ASTM D5185m	1070	1159	1146	1096
Phosphorus	ppm	ASTM D5185m	1150	942	1011	957
Zinc	ppm	ASTM D5185m	1270	1225	1297	1195
Sulfur	ppm	ASTM D5185m	2060	3191	3576	3202
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	13	16	4
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	3	6	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.1	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	20.9	19.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	16.8	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	7.6	8.1
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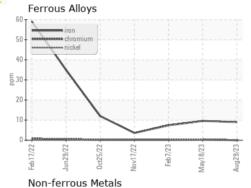
# **OIL ANALYSIS REPORT**

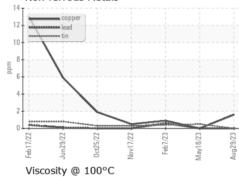


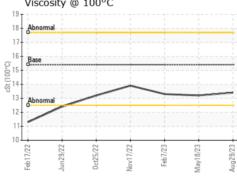
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

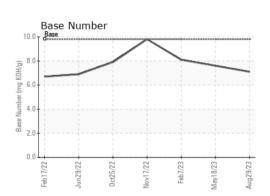
FLUID PROPE	KIIES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.2	13.3

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

: 05944132 Unique Number : 10634744 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0080387 Received : 06 Sep 2023

Diagnosed : 07 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 892 - Pauls Valley Hauling 405 East Airport Industrial Road Pauls Valley, OK

US 73075 Contact: Tony Graham

tgraham2@wcamerica.com T:

\* - 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)

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