

## **OIL ANALYSIS REPORT**

### NORMAL

## Machine Id 10453

Component

Diesel Engine

## PETRO CANADA DURON SHP 15W40 (11 GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

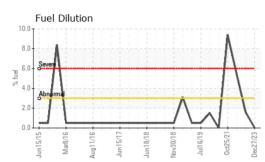
#### Fluid Condition

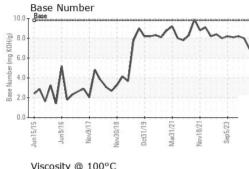
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

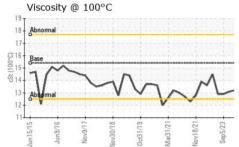
SAMPLE INFORMATION method limit/base current history1	history2
Sample Number Client Info GFL0074621 GFL0092489 GFL	_0097909
	Oct 2023
Machine Age hrs Client Info 1199 0 410	
Oil Age hrs Client Info <b>0</b> 0 410	
Oil Changed Client Info Changed Not	Changd
Sample Status NORMAL NORMAL NORMAL	RMAL
CONTAMINATION method limit/base current history1	history2
Water WC Method >0.2 NEG NEG N	NEG
Glycol WC Method NEG NEG	NEG
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185m >75 16 23 1	6
Chromium ppm ASTM D5185m >5 <1	:1
Nickel ppm ASTM D5185m >4 0 <1	:1
Titanium ppm ASTM D5185m >2 <1	:1
Silver ppm ASTM D5185m >2 0 <1 0	)
Aluminum ppm ASTM D5185m >15 2 2 3	3
Lead ppm ASTM D5185m >25 <b>0</b> <1 <	:1
Copper ppm ASTM D5185m >100 <1	:1
Tin ppm ASTM D5185m >4 O <1	)
Vanadium ppm ASTM D5185m 0 <1	)
Cadmium ppm ASTM D5185m 0 <1	:1
ADDITIVES method limit/base current history1	history2
ADDITIVES include influences current includy	Thistory Z
Boron ppm ASTM D5185m 0 6 8 1	0
Boron ppm ASTM D5185m 0 6 8 1   Barium ppm ASTM D5185m 0 0 0 0 <1	0
Boron ppm ASTM D5185m 0 6 8 1   Barium ppm ASTM D5185m 0 0 0 <1	0
Boron ppm ASTM D5185m 0 6 8 1   Barium ppm ASTM D5185m 0 0 0 <1	0 3 64
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Boron ppm ASTM D5185m 0 6 8 1   Barium ppm ASTM D5185m 0 0 <1 3   Molybdenum ppm ASTM D5185m 60 58 64 6   Manganese ppm ASTM D5185m 0 <1 <1 0   Magnesium ppm ASTM D5185m 1010 767 835 8   Calcium ppm ASTM D5185m 1070 978 10900 1   Phosphorus ppm ASTM D5185m 1150 8877 9777 9   Zinc ppm ASTM D5185m 1270 1067 1146 1	0 3 54 0 818 072 995
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Boron ppm ASTM D5185m 0 6 8 1   Barium ppm ASTM D5185m 0 0 <1 33   Molybdenum ppm ASTM D5185m 60 58 64 66   Manganese ppm ASTM D5185m 0 <1 <1 0   Magnesium ppm ASTM D5185m 1010 767 835 88   Calcium ppm ASTM D5185m 1070 978 1090 1   Phosphorus ppm ASTM D5185m 1150 887 977 99   Zinc ppm ASTM D5185m 1270 1067 1146 1   Sulfur ppm ASTM D5185m 2060 2571 2855 39	0 34 318 072 995 152 3524 history2
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# **OIL ANALYSIS REPORT**





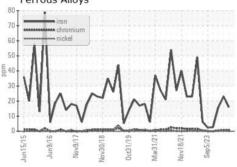


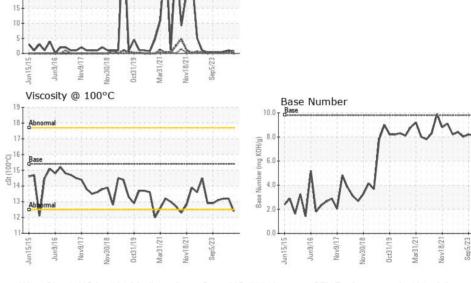
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	13.2	13.2
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

41





GFL Environmental - 095 - Atlanta West Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : GFL0074621 Recieved : 29 Dec 2023 2699 Cochran Industrial Blvd Douglasville, GA Lab Number : 06048148 Diagnosed : 03 Jan 2024 : 10808756 Unique Number Diagnostician : Wes Davis US 30127-1332 Test Package : FLEET ( Additional Tests: FuelDilution, PercentFuel ) Contact: Darrell Welch Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. darrell.welch@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (800)207-6618 F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)