

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

### NORMAL

# Machine Id 11077

Component

**Diesel Engine** Fluic

### PETRO CANADA DURON SHP 15W40 (25 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.



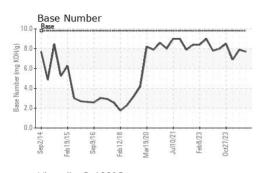


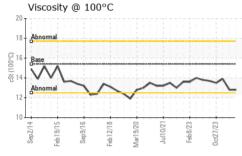
Sample Number Client Info GFL0098936 GFL0099006 GFL0098947   Sample Date I Client Info 01 Feb 2024 13 Dec 2023 06 Dec 2023   Machine Age hrs Client Info 97523 4572 4600   Oil Age hrs Client Info 97523 4572 97523   Oil Changed Client Info N/A N/A N/A N/A   Sample Status Imit/base current history1 history2   Fuel WC Method >3.0 <1.0 <1.0 <1.0   Water WC Method >0.2 NEG NEG NEG   Water WC Method >0.2 NEG NEG NEG   WeAR METALS method limit/base current history1 history2   Iron ppm ASTM D5185m >130 43 33 26   Chromium ppm ASTM D5185m >20 0 0 1   Nickel ppm AST		
Machine Age hrs Client Info 4680 4572 4600   Oil Age hrs Client Info 97523 4572 97523   Oil Changed Client Info N/A N/A N/A   Sample Status Imathematical Client Info N/A N/A N/A   Sample Status Imathematical Client Info N/A N/A N/A   CONTAMINATION method Imit/base current history1 history2   Fuel WC Method >0.2 NEG NEG NEG   Water WC Method >0.2 NEG NEG NEG   WEAR METALS method Imit/base current history1 history2   Iron ppm ASTM D5185m >130 43 33 26   Chromium ppm ASTM D5185m >10 3 2 <1   Nickel ppm ASTM D5185m >20 0 0 0   Silver ppm ASTM D5185m		
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CONTAMINATION method limit/base current history1 history2   Fuel WC Method >3.0 <1.0 <1.0 <1.0   Water WC Method >0.2 NEG NEG NEG   Glycol WC Method >0.2 NEG NEG NEG   WEAR METALS method limit/base current history1 history2   Iron ppm ASTM D5185m >130 43 33 26   Chromium ppm ASTM D5185m >10 3 2 <1   Nickel ppm ASTM D5185m >2 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >20 3 2 2   Lead ppm ASTM D5185m >125 1 <1 4   Tin ppm ASTM D5185m >4 <1 0 0   Van		
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Silver ppm ASTM D5185m >2 0 0 <1		
Lead ppm ASTM D5185m >20 0 0 0   Copper ppm ASTM D5185m >125 1 <1		
Copper ppm ASTM D5185m >125 1 <1		
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Magnesium ppm ASTM D5185m 1010 950 873 918   Calcium ppm ASTM D5185m 1070 996 1024 1095		
Calcium ppm ASTM D5185m 1070 996 1024 1095		
Phosphorus ppm ASTM D5185m 1150 981 863 915		
Zinc ppm ASTM D5185m 1270 1215 1126 1182		
Sulfur ppm ASTM D5185m 2060 2893 2532 2549		
CONTAMINANTS method limit/base current history1 history2		
Silicon ppm ASTM D5185m >25 4 4 5		
Sodium ppm ASTM D5185m 4 1 3		
Potassium ppm ASTM D5185m >20 4 <1		
INFRA-RED method limit/base current history1 history2		
Soot % % *ASTM D7844 >6 0.5 0.4 0.7		
Nitration Abs/cm *ASTM D7624 >20 8.7 7.9 10.5		
Sulfation Abs/.1mm *ASTM D7415 >30 19.1 18.6 21.1		
Sulfation Abs/.1mm *ASTM D7415 >30 19.1 18.6 21.1   FLUID DEGRADATION method limit/base current history1 history2		

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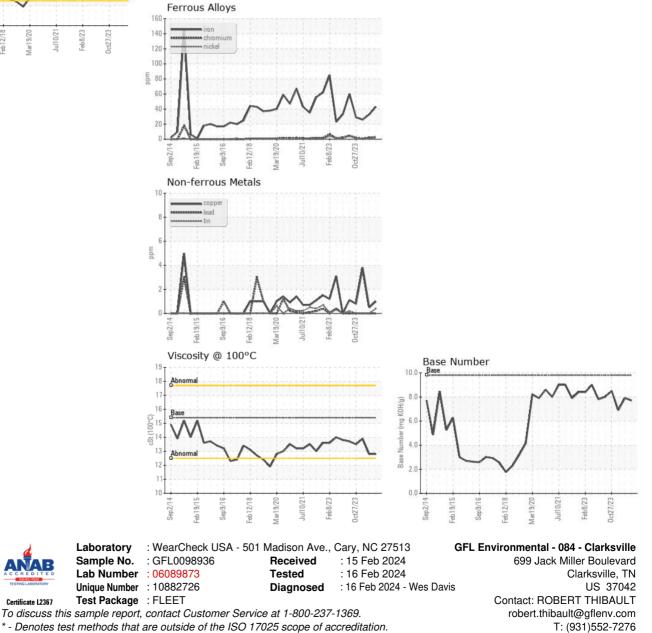


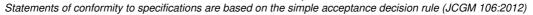
## **OIL ANALYSIS REPORT**





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	12.8	12.8	13.9
GRAPHS						





Certificate L2367

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