

### **OIL ANALYSIS REPORT**

Sample Rating Trend

# NORMAL

Machine Id

832004

#### Component Natural Gas Engine Fluid PETRO CANADA DURON SHP 15W40 (27 QTS)

#### 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.

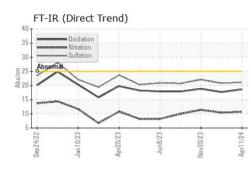
#### Fluid Condition

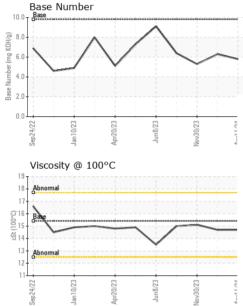
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current histo	ory1 history2
Sample Number Client Info GFL0106903 GFL0092	2177 GFL0092074
Sample Date   Client Info   11 Apr 2024   16 Feb 2	024 30 Nov 2023
Machine Age hrs Client Info 4804 4334	3761
Oil Age   hrs   Client Info   16259   16832	600
Oil Changed Client Info Changed Changed	Changed
Sample Status NORMAL NORMAL	NORMAL
CONTAMINATION method limit/base current histo	ory1 history2
Water WC Method >0.1 NEG NEG	NEG
WEAR METALS method limit/base current histo	ory1 history2
Iron ppm ASTM D5185m >50 4 5	6
Chromium   ppm   ASTM D5185m   >4   <1	<1
Nickel   ppm   ASTM D5185m   >2   0   <1	<1
Titanium   ppm   ASTM D5185m   0   0	0
Silver ppm ASTM D5185m >3 0 0	0
Aluminum   ppm   ASTM D5185m   >9   <1	2
Lead ppm ASTM D5185m >30 <1 0	<1
Copper   ppm   ASTM D5185m   >35   0   0	<1
Tin   ppm   ASTM D5185m   >4   <1	1
Vanadium   ppm   ASTM D5185m   0   0	<1
Cadmium   ppm   ASTM D5185m   0   0	0
ADDITIVES method limit/base current histo	
Boron   ppm   ASTM D5185m   0   14   15	12
Barium   ppm   ASTM D5185m   0   0   0   0	0
Molybdenum   ppm   ASTM D5185m   60   51   50	55
Manganese   ppm   ASTM D5185m   0   0   <1	<1
Magnesium   ppm   ASTM D5185m   1010   548   544	608
Calcium   ppm   ASTM D5185m   1070   1613   1526     Phasenbarus   ppm   ASTM D5195m   1150   710   700	1668
Phosphorus   ppm   ASTM D5185m   1150   718   702	1668 754
	1668
Phosphorus   ppm   ASTM D5185m   1150 <b>718</b> 702     Zinc   ppm   ASTM D5185m   1270 <b>920</b> 941	1668 754 1055 2595
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267	1668 754 1055 2595
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267     CONTAMINANTS   method   limit/base   current   history	1668 754 1055 2595 ory1 history2
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267     CONTAMINANTS   method   limit/base   current   histor     Silicon   ppm   ASTM D5185m   >+100   3   3	1668 754 1055 2595 ory1 history2 3
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267     CONTAMINANTS   method   limit/base   current   histor     Silicon   ppm   ASTM D5185m   >+100   3   3     Sodium   ppm   ASTM D5185m   4   5	1668   754   1055   2595   ory1   history2   3   5   1
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267     CONTAMINANTS   method   limit/base   current   histor     Silicon   ppm   ASTM D5185m   >+100   3   3     Sodium   ppm   ASTM D5185m   >20   0   1	1668   754   1055   2595   ory1   history2   3   5   1
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267     CONTAMINANTS   method   limit/base   current   histor     Silicon   ppm   ASTM D5185m   >+100   3   3     Sodium   ppm   ASTM D5185m   >20   0   1     INFRA-RED   method   limit/base   current   histor	1668   754   1055   2595   rry1   history2   3   5   1   rry1   history2
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267     CONTAMINANTS   method   limit/base   current   histor     Silicon   ppm   ASTM D5185m   >+100   3   3     Sodium   ppm   ASTM D5185m   >+100   3   3     Potassium   ppm   ASTM D5185m   >20   0   1     INFRA-RED   method   limit/base   current   histor     Soot %   %   *ASTM D7844   0   0	1668   754   1055   2595   bry1   history2   3   5   1   bry1   history2   0
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267     CONTAMINANTS   method   limit/base   current   histor     Silicon   ppm   ASTM D5185m   >+100   3   3     Sodium   ppm   ASTM D5185m   >+100   3   3     Potassium   ppm   ASTM D5185m   >20   0   1     INFRA-RED   method   limit/base   current   histor     Soot %   %   *ASTM D7844   0   0     Nitration   Abs/cm   *ASTM D7624   >20   10.7   10.4	1668   754   1055   2595   ary1   history2   3   5   1   history2   0   11.4   22.1
Phosphorus   ppm   ASTM D5185m   1150   718   702     Zinc   ppm   ASTM D5185m   1270   920   941     Sulfur   ppm   ASTM D5185m   2060   2590   2267     CONTAMINANTS   method   limit/base   current   histor     Silicon   ppm   ASTM D5185m   >+100   3   3     Sodium   ppm   ASTM D5185m   >+100   3   3     Sodium   ppm   ASTM D5185m   >+20   0   1     INFRA-RED   method   limit/base   current   histor     Soot %   %   *ASTM D7844   0   0     Nitration   Abs/cm   *ASTM D7415   >30   21.1   20.8	1668   754   1055   2595   ary1   history2   3   5   1   history2   0   11.4   22.1



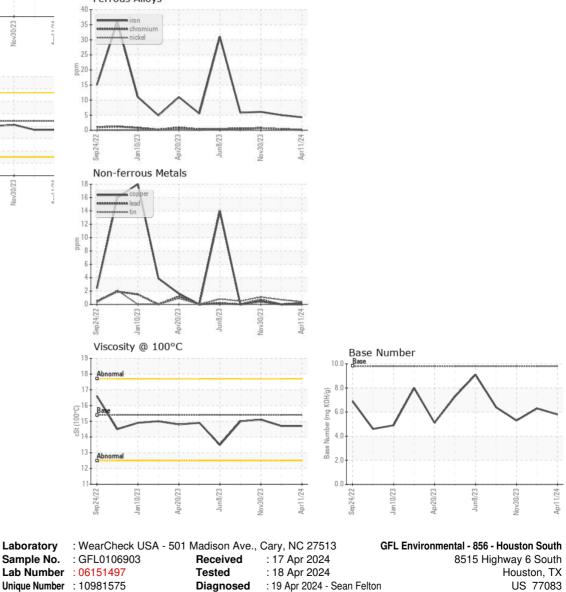
## **OIL ANALYSIS REPORT**





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	>0.1	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	14.7	14.7	15.1
GRAPHS						

Ferrous Alloys



 Unique Number
 : 10981575
 Diagnosed
 : 19 Apr 2024 - Sean Felton

 Certificate 12367
 Test Package
 : FLEET
 Official Control Contrecontro Contrecontrol Control Control Contrecontrol Control Contr

Report Id: GFL856 [WUSCAR] 06151497 (Generated: 04/19/2024 14:54:35) Rev: 1

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