

17

Base

Abnormal

() 0010 15

د) تح 14

13

12

11

Visc @ 100°C



5.0

.5001 0.5001

2.0

1.0

0.0

0ct6/23

Abnormal

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

0rt13/23		0ct6/23					0ct13/23		
PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL				
Soot %	%	*ASTM D7844	>4	6.4	0.1				
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>0.0</b>	9.1				

cSt ASTM D445 15.4 🔺 17.9 13.9 ----

Customer Id: GFL829 Sample No.: GFL0065466 Lab Number: 05982220 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			
Resample			?	We recommend an early resample to monitor this condition.			
Alert			?	NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.			
Check Combustion			?	We advise that you check for faulty combustion, plugged air filters, or aftercoolers.			

## HISTORICAL DIAGNOSIS



06 Oct 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

Sample Rating Trend





DIAGNOSIS

Contamination

present in the oil.

Fluid Condition

Wear

is low.

Recommendation

you service the filters on this component. We

including Total Base Number (TBN) value.

All component wear rates are normal.

Machine Ic 423028-401383 Component

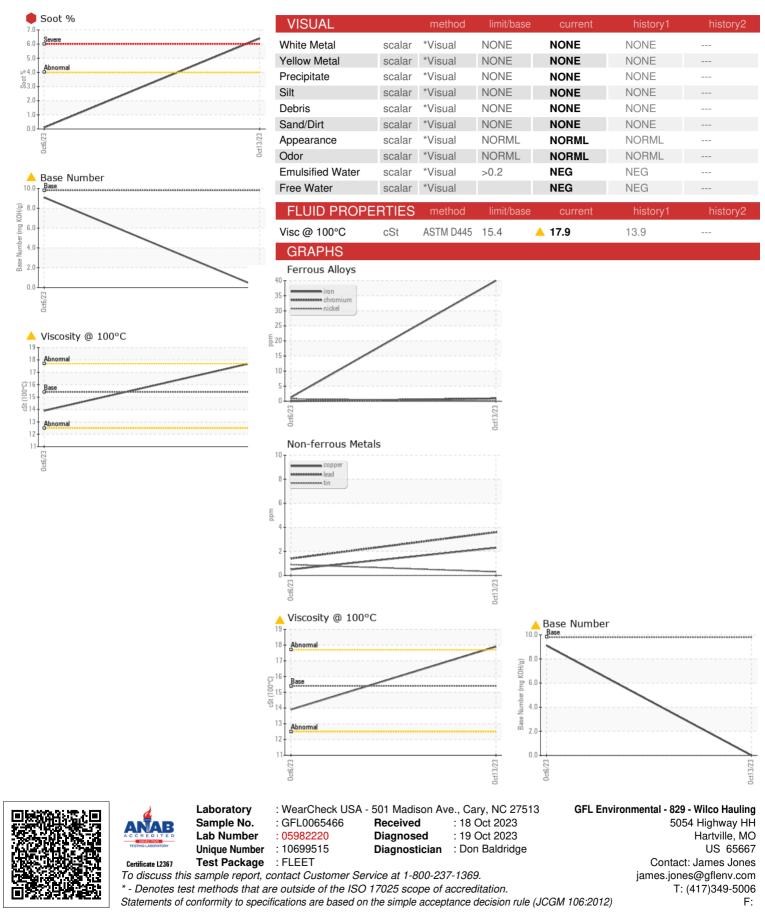
**Diesel Engine** Fluic

PETRO CANADA DURON SHP 15W40 (8 GAL)

## SAMPLE INFORMATION method GFL0065466 GFL0065460 Sample Number **Client Info** We advise that you check for faulty combustion, Sample Date Client Info 13 Oct 2023 06 Oct 2023 plugged air filters, or aftercoolers. We recommend Machine Age hrs **Client Info** 33975 33988 Oil Age hrs Client Info 150 600 recommend an early resample to monitor this Oil Changed Not Changd **Client Info** Changed condition. NOTE: High solids (carbon/soot) in the Sample Status SEVERE NORMAL sample have limited the accuracy of Infra-Red data CONTAMINATION Fuel WC Method >3.0 <1.0 <1.0 WC Method Glycol NEG NEG There is an abnormal amount of solids and carbon WEAR METALS method Iron ASTM D5185m >120 40 1 ppm ASTM D5185m >20 0 Chromium ppm <1 The oil viscosity is higher than normal. The BN level Nickel ASTM D5185m >5 0 <1 ppm 0 ASTM D5185m >2 n Titanium ppm Silver ppm ASTM D5185m >2 0 0 Aluminum ASTM D5185m >20 1 2 ppm ASTM D5185m >40 4 Lead ppm 1 ASTM D5185m >330 2 Copper ppm <1 Tin ppm ASTM D5185m >15 <1 <1 0 Vanadium ASTM D5185m 0 ppm Cadmium ppm ASTM D5185m 0 0 ADDITIVES history2 4 Boron ppm ASTM D5185m 0 27 Barium ppm ASTM D5185m 0 <1 0 ASTM D5185m 60 63 56 Molybdenum ppm Manganese ppm ASTM D5185m 0 <1 <1 1010 926 899 Magnesium ppm ASTM D5185m Calcium ASTM D5185m 1070 1099 1017 ppm Phosphorus ppm ASTM D5185m 1150 1014 1045 Zinc ppm ASTM D5185m 1270 1247 1246 Sulfur 2060 3128 ppm ASTM D5185m 2740 CONTAMINANTS Silicon ASTM D5185m >25 4 3 ppm ---0 Sodium ASTM D5185m 1 ppm Potassium ASTM D5185m >20 2 0 ppm **INFRA-RED** Soot % % \*ASTM D7844 >4 6.4 0.1 Nitration Abs/cm \*ASTM D7624 >20 5.5 15.5 Sulfation Abs/.1mm \*ASTM D7415 >30 35.9 17.3 **FLUID DEGRADATION** method history2 Abs/.1mm \*ASTM D7414 >25 27.1 Oxidation 13.3 Base Number (BN) mg KOH/g ASTM D2896 9.8 0.0 9.1



## **OIL ANALYSIS REPORT**



Submitted By: Jerry Hazel