

## RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	SEVERE	SEVERE				
Fuel	%	ASTM D3524	>3.0	<b>8.9</b>	<b>8</b> .0	▲ 8.8				
Visc @ 100°C	cSt	ASTM D445	15.4	<b>11.3</b>	<b>11.4</b>	<b>▲</b> 11.1				

Customer Id: GFL007 Sample No.: GFL0123380 Lab Number: 06227100 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Fuel/injector System			?	We advise that you check the fuel injection system.			

## HISTORICAL DIAGNOSIS



### 18 Jun 2024 Diag: Wes Davis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.





### 14 Nov 2023 Diag: Sean Felton

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. The BN level is low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



## FUEL We advise recommen

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**02 Jun 2023 Diag: Wes Davis** We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.





## **OIL ANALYSIS REPORT**

Sample Rating Trend

FUEL

# (YA105018) Additional of the second second

Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)

### SAMPLE INFORMATION method GFL0123380 GFL0123438 GFL0082419 Sample Number Client Info Sample Date Client Info 27 Jun 2024 18 Jun 2024 14 Nov 2023 239552 Machine Age mls **Client Info** 239552 239552 Oil Age mls Client Info 239552 239552 239552 Oil Changed Client Info N/A N/A Changed Sample Status SEVERE SEVERE SEVERE CONTAMINATION Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method Iron ASTM D5185m >120 13 13 10 ppm ASTM D5185m >20 Chromium ppm <1 <1 <1 Nickel ASTM D5185m >5 0 0 0 ppm ASTM D5185m >2 n <1 0 Titanium ppm Silver ppm ASTM D5185m >2 0 0 0 Aluminum ASTM D5185m >20 5 4 2 ppm ASTM D5185m >40 2 2 Lead ppm د1 ASTM D5185m 2 2 Copper ppm >330 2 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ASTM D5185m 0 ppm <1 <1 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method history2 Boron ppm ASTM D5185m 0 <1 <1 <1 Barium ppm ASTM D5185m 0 0 0 0 ASTM D5185m 60 55 56 54 Molybdenum ppm Manganese ppm ASTM D5185m 0 0 <1 <1 ASTM D5185m 1010 882 929 823 Magnesium ppm Calcium ASTM D5185m 1070 986 1115 997 ppm Phosphorus ppm ASTM D5185m 1150 956 1009 836 Zinc ppm ASTM D5185m 1270 1157 1243 1076 Sulfur 2060 3077 2476 ppm ASTM D5185m 2413 CONTAMINANTS Silicon ASTM D5185m >25 8 8 6 ppm 5 Sodium ASTM D5185m 7 12 ppm ASTM D5185m Potassium >20 2 3 0 ppm 8.0 8.9 8.8 Fuel % ASTM D3524 >3.0 **INFRA-RED** % 0.5 0.4 0.3 Soot % \*ASTM D7844 >4 Nitration Abs/cm \*ASTM D7624 >20 12.0 11.6 11.9 Sulfation 23.1 22.9 Abs/.1mm \*ASTM D7415 >30 24.8 FLUID DEGRADATION \*ASTM D7414 >25 20.8 20.5 24.2 Oxidation Abs/.1mm

Base Number (BN) mg KOH/g ASTM D2896 9.8

# DIAGNOSIS Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

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### Wear

All component wear rates are normal.

### Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

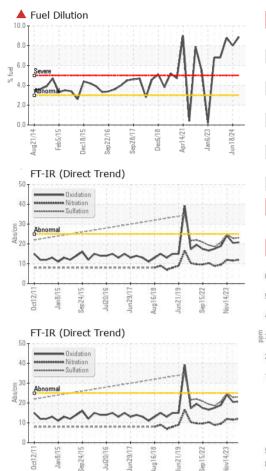
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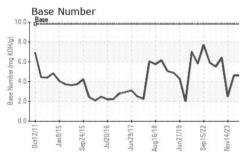
4.6

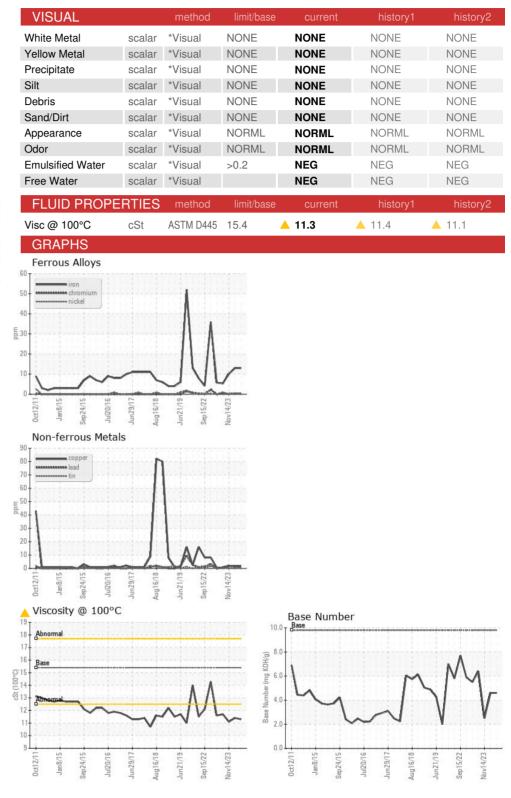
4.6



## **OIL ANALYSIS REPORT**







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 007 - Brunswick Sample No. : GFL0123380 Received : 03 Jul 2024 2809 Galloway Road Lab Number : 06227100 Tested : 08 Jul 2024 Bolivia, NC Unique Number : 11110593 Diagnosed : 08 Jul 2024 - Wes Davis US 28422 Test Package : FLEET ( Additional Tests: PercentFuel ) Contact: DONALD CRAVEN Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dcraven@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (910)253-4179

Report Id: GFL007 [WUSCAR] 06227100 (Generated: 07/09/2024 15:44:26) Rev: 1

Submitted By: DONALD CRAVEN

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