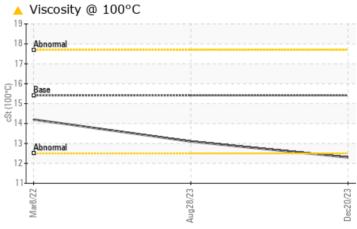


Dec20/23





### RECOMMENDATION

3.0

2.0

1.0 0.0

Dec20/23

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	NORMAL	NORMAL			
Fuel	%	ASTM D3524	>3.0	9.0	<1.0	<1.0			
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.3</b>	13.1	14.2			

Customer Id: GFL465 Sample No.: GFL0107045 Lab Number: 06045802 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



28 Aug 2023 Diag: Sean Felton



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.



## 08 Mar 2022 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

Fluid Condition

condition.

Wear

Recommendation

Machine Id 836M

Component **Diesel Engine** Fluic

PETRO CANADA DURON SHP 15W40 (36 QTS)

### SAMPLE INFORMATION method GFL0107045 GFL0091533 GFL0018430 Sample Number **Client Info** We advise that you check the fuel injection system. Sample Date Client Info 20 Dec 2023 28 Aug 2023 08 Mar 2022 We recommend that you drain the oil from the Machine Age hrs Client Info 10184 9784 8496 component if this has not already been done. We Oil Age hrs Client Info 600 600 0 recommend an early resample to monitor this Oil Changed Not Changd **Client Info** Changed Changed Sample Status SEVERE NORMAL NORMAL All component wear rates are normal. CONTAMINATION Water WC Method >0.2 NEG NEG NEG There is a high amount of fuel present in the oil. WC Method Glycol NEG NEG NEG Tests confirm the presence of fuel in the oil. WEAR METALS method history? The BN result indicates that there is suitable 6 Iron ASTM D5185m >90 20 37 ppm alkalinity remaining in the oil. Fuel is present in the >20 Chromium ppm ASTM D5185m <1 <1 1 oil and is lowering the viscosity. The oil is no longer Nickel ASTM D5185m >2 0 0 ppm <1 serviceable due to the presence of contaminants. 0 ASTM D5185m >2 0 0 Titanium ppm Silver ppm ASTM D5185m >2 0 0 0 Aluminum ASTM D5185m >20 2 2 6 ppm ASTM D5185m >40 0 0 Lead ppm <1 ASTM D5185m Copper >330 1 1 ppm <1 0 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ASTM D5185m 0 ppm <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 ADDITIVES method history2 4 4 Boron ppm ASTM D5185m 0 <1 Barium ppm ASTM D5185m 0 0 0 0 ASTM D5185m 60 54 61 74 Molybdenum ppm Manganese ASTM D5185m 0 0 <1 <1 ppm 1010 971 Magnesium ppm ASTM D5185m 831 1171 Calcium ASTM D5185m 1070 972 1103 1321 ppm Phosphorus ppm ASTM D5185m 1150 884 1063 1306 Zinc ppm ASTM D5185m 1270 1087 1236 1589 Sulfur 2060 3725 3156 ppm ASTM D5185m 2636 CONTAMINANTS Silicon ASTM D5185m >25 3 3 6 ppm Sodium ASTM D5185m <1 3 ppm <1 Potassium ASTM D5185m >20 2 0 4 ppm Fuel % ASTM D3524 >3.0 9.0 <1.0 <1.0 **INFRA-RED** % >6 0.6 0.2 1 Soot % \*ASTM D7844 Nitration Abs/cm \*ASTM D7624 >20 11.4 6.6 13.1 25.0 Sulfation \*ASTM D7415 >30 23.1 17.5 Abs/.1mm FLUID DEGRADATION method \*ASTM D7414 >25 22.9 13.8 23.2 Oxidation Abs/.1mm

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

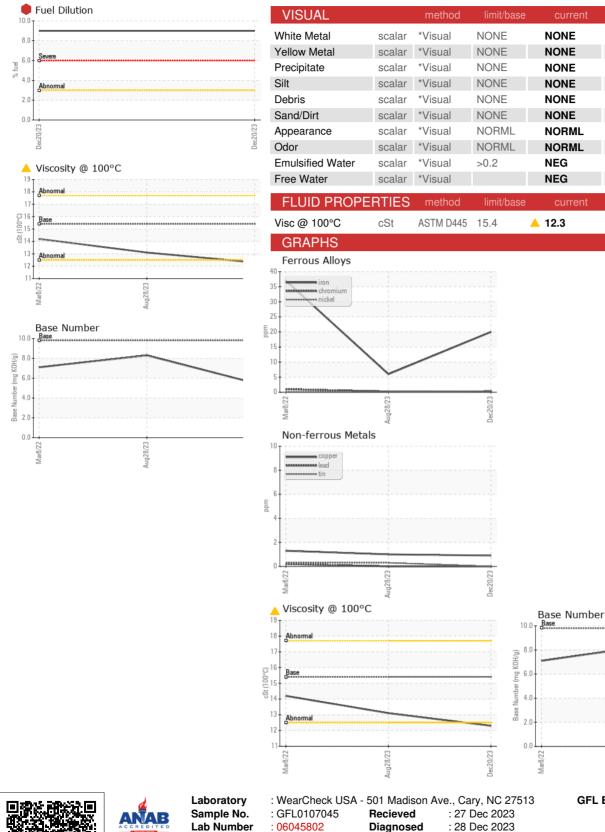
8.3

7.1

5.5



# **OIL ANALYSIS REPORT**



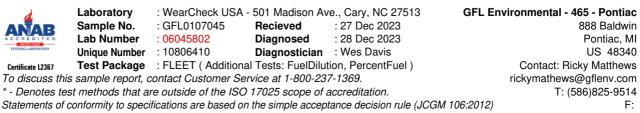
: 10806410

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Diagnostician : Wes Davis

Unique Number



Aug28/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.2

Certificate L2367

Submitted By: Ricky Matthews

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