

RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We recommend that you drain the oil and perform a filter service on this component if not already done. 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.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	NORMAL			
Soot %	%	*ASTM D7844	>3	8.2	0.2	0.4			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	0.0	8.6	7.5			

Customer Id: GFL455 Sample No.: GFL0092776 Lab Number: 05997662 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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 and perform a filter service on this component if not already done.			
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
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



28 Aug 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.



view report

07 Jun 2023 Diag: Wes Davis



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. 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.



03 Jan 2023 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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.





Wear

OIL ANALYSIS REPORT

Sample Rating Trend



1117M Component **Diesel Engine** Fluic

Machine Id

PETRO CANADA DURON SHP 15W40 (--- GAL)

SAMPLE INFORMATION method DIAGNOSIS GFL0092776 GFL0080757 GFL0080797 Sample Number **Client Info** Recommendation We advise that you check for faulty combustion, Sample Date Client Info 26 Oct 2023 28 Aug 2023 07 Jun 2023 plugged air filters, or aftercoolers. We recommend Machine Age hrs Client Info 11721 10764 10764 that you drain the oil and perform a filter service on Oil Age hrs Client Info 11721 10764 0 this component if not already done. We recommend Oil Changed **Client Info** N/A Not Changd Changed an early resample to monitor this condition. NOTE: Sample Status SEVERE NORMAL NORMAL High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base CONTAMINATION Number (TBN) value. NEG NEG Glycol WC Method NEG All component wear rates are normal. WEAR METALS Contamination Iron ASTM D5185m >200 5 6 17 ppm Fuel content negligible. There is an abnormal Chromium ASTM D5185m >20 ppm <1 <1 <1 amount of solids and carbon present in the oil. Nickel ASTM D5185m >2 <1 -1 \cap ppm Fluid Condition Titanium ASTM D5185m >2 0 0 ppm <1 The BN level is low. The oil is no longer serviceable 0 >2 Silver ppm ASTM D5185m <1 0 due to the presence of contaminants. Aluminum ppm ASTM D5185m >30 1 4 <1 ASTM D5185m >30 0 0 Lead <1 ppm >30 3 2 Copper ppm ASTM D5185m 1 Tin ASTM D5185m >15 <1 ppm <1 <1 0 0 Vanadium ASTM D5185m <1 ppm Cadmium 0 0 ppm ASTM D5185m <1 **ADDITIVES** 3 4 6 Boron ASTM D5185m 0 ppm ASTM D5185m 0 0 Barium ppm 4 0 Molvbdenum ASTM D5185m 60 75 64 63 ppm 0 0 <1 <1 Manganese ppm ASTM D5185m Magnesium ASTM D5185m 1010 1060 1074 997 ppm Calcium ASTM D5185m 1070 1148 ppm 1250 1220 Phosphorus ASTM D5185m 1150 1107 1071 1072 ppm Zinc ppm ASTM D5185m 1270 1372 1313 1383 Sulfur ASTM D5185m 2060 3528 3784 4024 ppm CONTAMINANTS 5 Silicon ppm ASTM D5185m >30 6 4 Sodium ASTM D5185m 0 1 1 ppm Potassium ASTM D5185m >20 2 2 ppm <1 % ASTM D3524 >3.0 0.2 Fuel 0.3 <1.0 **INFRA-RED** Soot % % *ASTM D7844 >3 8.2 0.2 0.4 Nitration Abs/cm *ASTM D7624 >20 6.0 6.5 48.0 Sulfation Abs/.1mm *ASTM D7415 >30 71.1 17.2 19.7 FLUID DEGRADATION method Abs/.1mm *ASTM D7414 >25 Oxidation 119.8 12.6 15.6

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

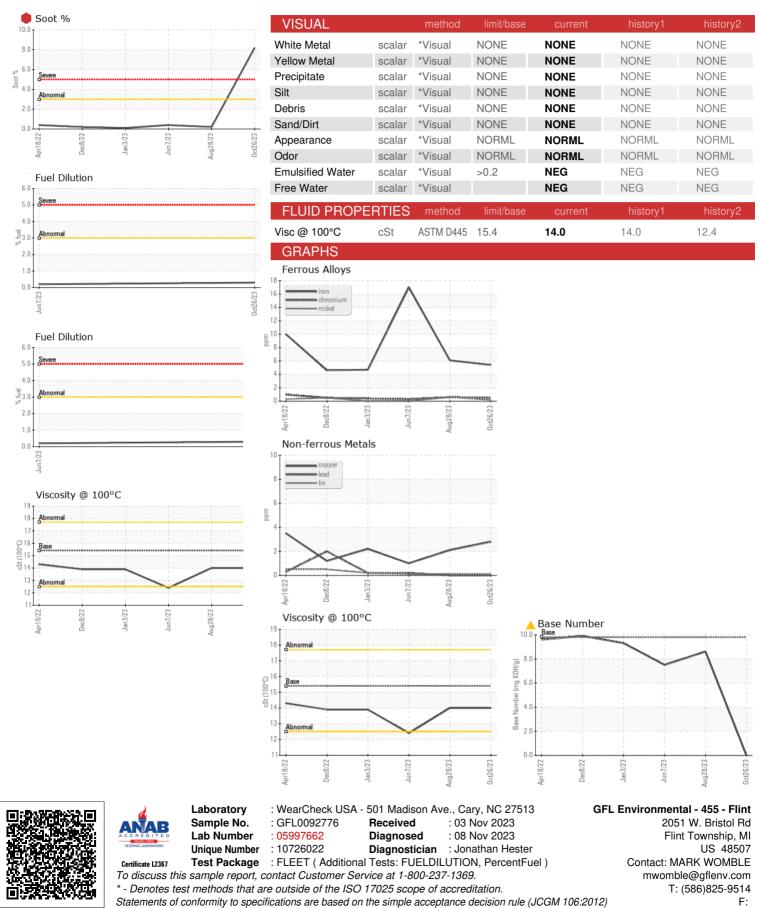
7.5

8.6

0.0



OIL ANALYSIS REPORT



Page 4 of 4