

OIL ANALYSIS REPORT

Sample Rating Trend





836M Component Diesel Engine

Machine Id

Fluic

PETRO CANADA DURON SHP 15W40 (36 QTS)

SAMPLE INFORMATION method GFL0107058 GFL0107045 GFL0091533 Sample Number **Client Info** 28 Dec 2023 Sample Date Client Info 20 Dec 2023 28 Aug 2023 Machine Age hrs Client Info 10199 10184 9784 Oil Age hrs Client Info 600 600 600 Oil Changed Client Info Changed Not Changd Changed Sample Status NORMAL SEVERE NORMAL CONTAMINATION WC Method >0.2 NEG NEG NEG Water Glycol WC Method NEG NEG NEG WEAR METALS 3 20 Iron ASTM D5185m >90 6 ppm >20 Chromium ppm ASTM D5185m <1 <1 <1 Nickel ASTM D5185m >2 0 <1 0 ppm 0 ASTM D5185m >2 0 0 Titanium ppm Silver ppm ASTM D5185m >2 0 0 0 Aluminum ASTM D5185m >20 <1 2 2 ppm ASTM D5185m >40 0 0 Lead ppm <1 ASTM D5185m Copper >330 1 <1 1 ppm 0 Tin ppm ASTM D5185m >15 <1 <1 0 Vanadium ASTM D5185m 0 ppm <1 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES 4 0 <1 Boron ppm ASTM D5185m 1 Barium ppm ASTM D5185m 0 0 0 0 ASTM D5185m 60 57 54 61 Molybdenum ppm 0 Manganese ppm ASTM D5185m 0 0 <1 1010 922 831 971 Magnesium ppm ASTM D5185m Calcium ASTM D5185m 1070 1031 972 1103 ppm Phosphorus ppm ASTM D5185m 1150 1067 884 1063 Zinc ppm ASTM D5185m 1270 1204 1087 1236 Sulfur 2060 2636 ppm ASTM D5185m 3163 3725 CONTAMINANTS Silicon ASTM D5185m >25 4 3 3 ppm 2 Sodium ASTM D5185m <1 3 ppm Potassium ASTM D5185m >20 0 2 0 ppm 9.0 Fuel % ASTM D3524 >3.0 0.5 <1.0 INFRA-RED % 0.1 0.6 0.2 Soot % *ASTM D7844 >6 Nitration Abs/cm *ASTM D7624 >20 5.4 11.4 6.6 Sulfation *ASTM D7415 >30 17.5 23.1 17.5 Abs/.1mm FLUID DEGRADATION Abs/.1mm *ASTM D7414 >25 13.4 22.9 13.8 Oxidation Base Number (BN) mg KOH/g ASTM D2896 9.8 9.4 5.5 8.3

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

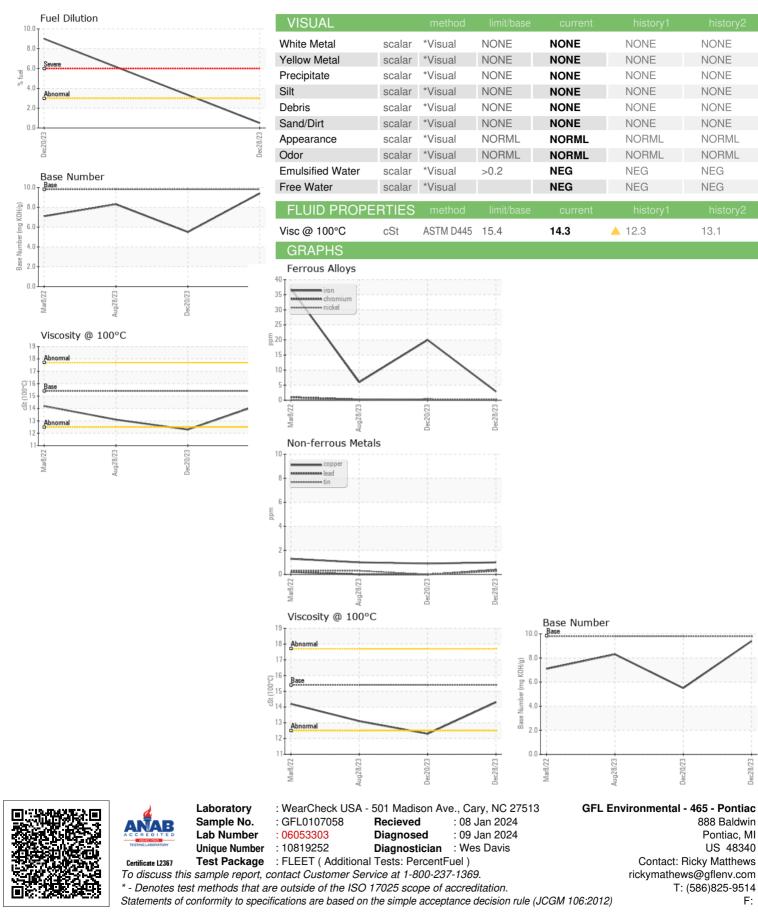
Fuel content negligible. There is no indication of any contamination in the oil.

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.



OIL ANALYSIS REPORT



F: