

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 831055 Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

SAMPLE INFORMATION method GFL0099569 Client Info GFL0070702 GFL0063711 Sample Number 05 Feb 2024 09 Feb 2023 Sample Date Client Info 11 Jan 2023 2927 Machine Age hrs **Client Info** 1225 1115 Oil Age hrs Client Info 656 310 199 Oil Changed **Client Info** Changed N/A Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Water WC Method >0.1 NEG NEG NEG Glycol WC Method WEAR METALS 20 22 Iron ASTM D5185(m) >50 17 ppm ASTM D5185(m) Chromium >5 2 2 ppm <1 Nickel ASTM D5185(m) >4 <1 <1 <1 ppm >5 0 <1 Titanium ppm ASTM D5185(m) <1 Silver ppm ASTM D5185(m) >3 0 0 0 Aluminum ASTM D5185(m) >25 4 3 3 ppm Lead ASTM D5185(m) >40 5 <1 <1 ppm 2 3 Copper ppm ASTM D5185(m) >150 3 Tin ppm ASTM D5185(m) >4 1 <1 <1 0 0 Antimony ASTM D5185(m) 0 ppm Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium 0 0 ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 **ADDITIVES** Boron ASTM D5185(m) 50 6 18 28 ppm 0 Barium ppm ASTM D5185(m) 5 <1 0 53 Molybdenum 50 56 50 ppm ASTM D5185(m) Manganese ppm ASTM D5185(m) 0 <1 2 1 Magnesium ppm ASTM D5185(m) 560 604 580 570 Calcium ppm ASTM D5185(m) 1510 1754 1612 1571 Phosphorus 780 792 ppm ASTM D5185(m) 749 791 Zinc ppm ASTM D5185(m) 870 961 890 869 Sulfur 2088 2081 2044 ppm ASTM D5185(m) 2040 Lithium ASTM D5185(m) ppm <1 <1 <1 CONTAMINANTS >25 8 26 Silicon ppm ASTM D5185(m) 17 Sodium 7 7 ppm ASTM D5185(m) 10 Potassium ppm ASTM D5185(m) >20 4 3 2 **INFRA-RED** % 0 0 0 Soot % ASTM D7844* Nitration Abs/cm ASTM D7624* >20 12.7 9.1 8.8 Sulfation 20.1 20.9 Abs/.1mm ASTM D7415* >30 26.3

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

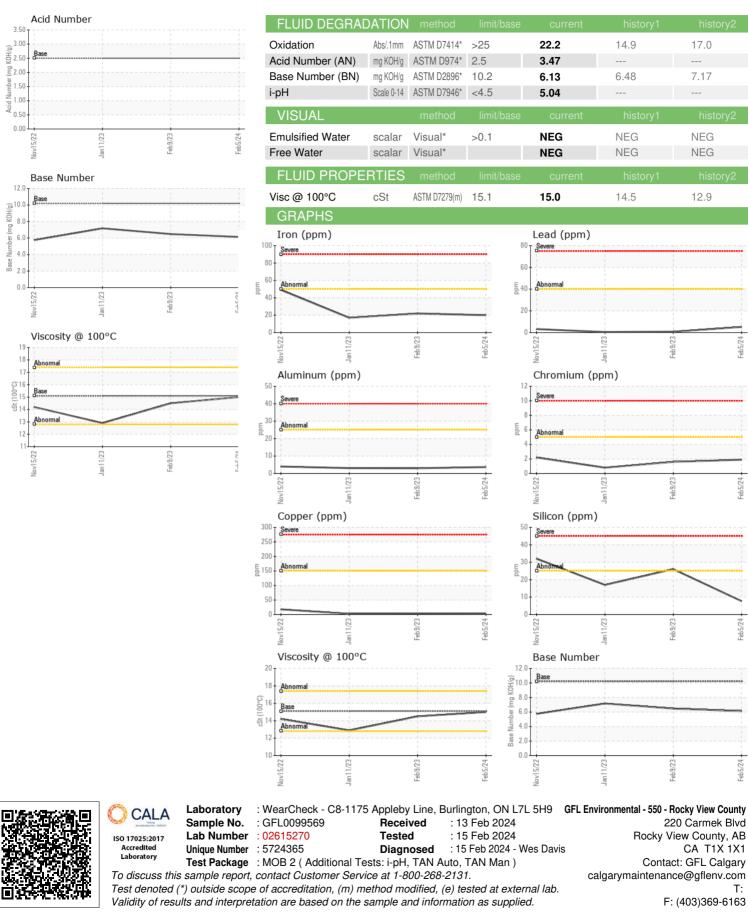
There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



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