

OIL ANALYSIS REPORT

SAMPLE INFORMATION





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

DIAGNOSIS

A Wear

Contamination

Fluid Condition

of contaminants.

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check the fuel injection system. 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.

Piston, ring and cylinder wear is indicated.

is a high amount of fuel present in the oil.

Elemental levels of silicon (Si) and aluminum (Al)

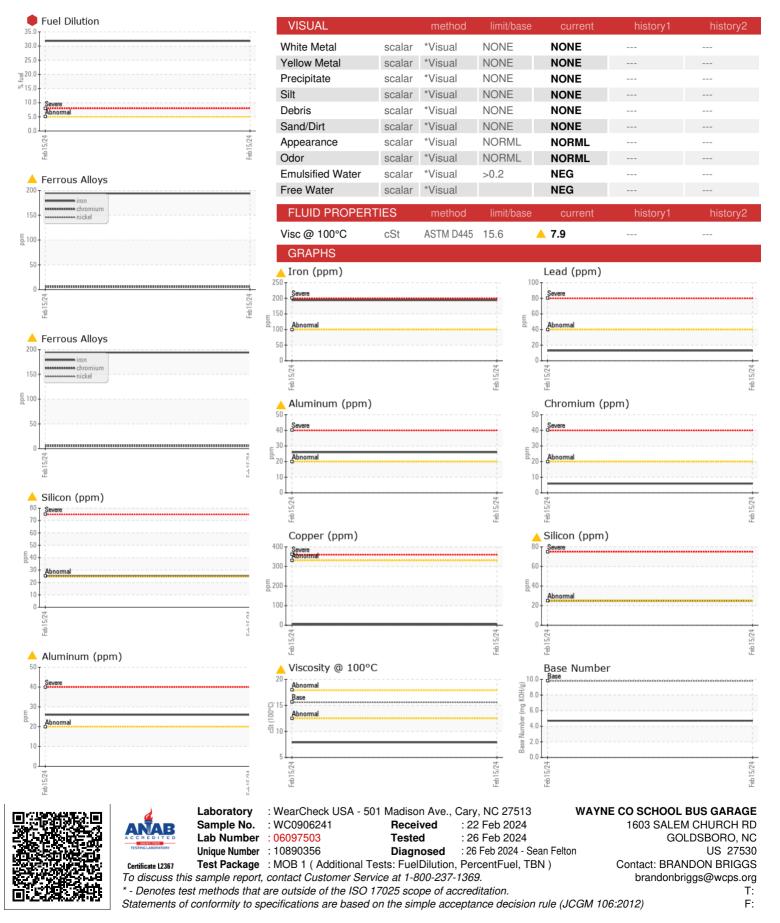
indicate alumina-silicate (coarse dirt) ingress. There

The oil is no longer serviceable due to the presence

WC0906241 Sample Number Client Info 15 Feb 2024 Sample Date Client Info Client Info Machine Age mls 131130 Oil Age mls Client Info 0 Oil Changed N/A **Client Info** SEVERE Sample Status CONTAMINATION Water WC Method >0.2 NEG ---WC Method Glycol NEG WEAR METALS history2 Iron ASTM D5185m >100 **194** ppm ASTM D5185m >20 6 Chromium ppm Nickel ASTM D5185m 4 ppm >4 Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m >3 0 Aluminum ASTM D5185m >20 26 ppm ASTM D5185m >40 13 Lead ppm Copper ppm ASTM D5185m >330 5 4 Tin ppm ASTM D5185m >15 Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m 0 **ADDITIVES** history2 6 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 45 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 494 ASTM D5185m Calcium 632 ppm Phosphorus ppm ASTM D5185m 560 Zinc ppm ASTM D5185m 683 Sulfur ppm ASTM D5185m 1542 CONTAMINANTS Silicon ppm ASTM D5185m >25 25 ------2 Sodium ASTM D5185m ppm Potassium ASTM D5185m >20 0 ppm Fuel % ASTM D3524 >5 31.8 **INFRA-RED** % >3 1.4 Soot % *ASTM D7844 Nitration Abs/cm *ASTM D7624 >20 14.5 Sulfation *ASTM D7415 >30 25.7 Abs/.1mm FLUID DEGRADATION history1 *ASTM D7414 >25 30.9 Oxidation Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 9.8 4.7



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Contact/Location: BRANDON BRIGGS - WAYGOL