

OIL ANALYSIS REPORT

Sample Rating Trend



NOVA BUS 60044 Component

Rear Diesel Engine VALVOLINE 15W40 (24 LTR)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

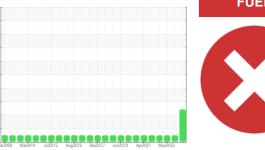
All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

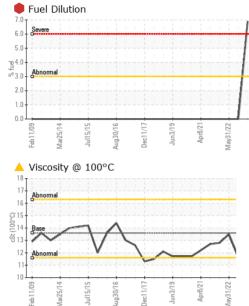
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

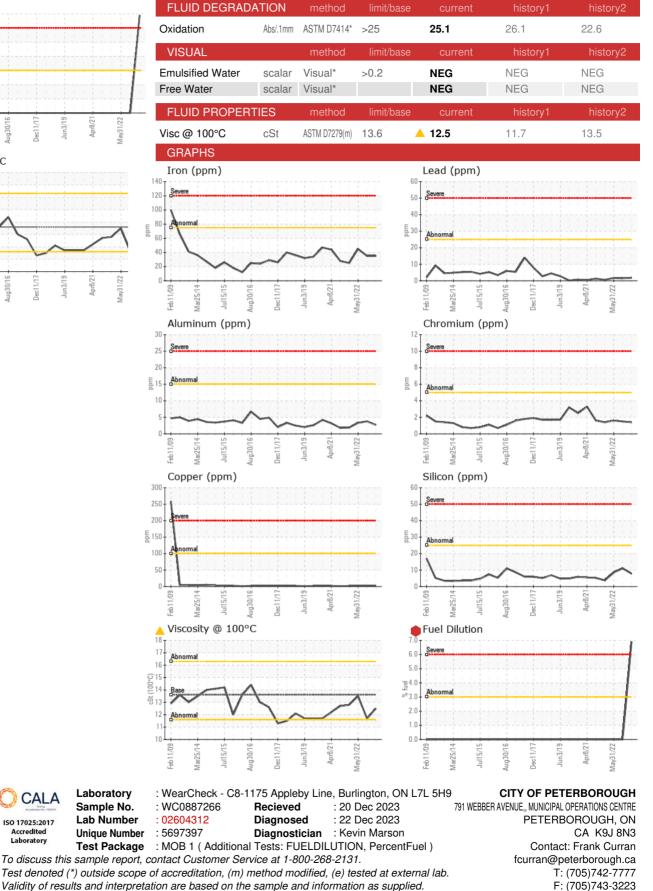


SAMPLE INFORMATION method WC0887266 WC0770732 WC0700623 Sample Number **Client Info** Sample Date Client Info 12 Dec 2023 08 May 2023 31 May 2022 979925 Machine Age kms **Client Info** 943892 894941 Oil Age kms Client Info 10000 10000 10000 Oil Changed Changed **Client Info** Changed Changed SEVERE Sample Status NORMAL NORMAL CONTAMINATION Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method history? Iron ASTM D5185(m) >75 35 35 45 ppm 2 2 Chromium ppm ASTM D5185(m) >5 1 Nickel ASTM D5185(m) <1 <1 0 ppm >4 ASTM D5185(m) >2 0 0 Titanium ppm <1 Silver ppm ASTM D5185(m) >2 0 0 0 Aluminum ASTM D5185(m) >15 3 4 3 ppm ASTM D5185(m) >25 2 2 2 Lead ppm 2 2 2 Copper ASTM D5185(m) >100 ppm 0 Tin ppm ASTM D5185(m) >4 <1 <1 0 Antimony ASTM D5185(m) 0 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) 39 3 2 2 ppm 0 0 Barium ppm ASTM D5185(m) 0 1 Molybdenum 63 63 66 ppm ASTM D5185(m) 49 Manganese ASTM D5185(m) 1 0 <1 ppm <1 1041 Magnesium ppm ASTM D5185(m) 616 1002 1097 Calcium ppm ASTM D5185(m) 1554 1124 1146 1137 899 1089 Phosphorus ppm ASTM D5185(m) 1045 1147 Zinc ASTM D5185(m) 1069 1239 1236 1336 ppm 2532 2532 Sulfur ASTM D5185(m) 2624 2447 ppm Lithium ASTM D5185(m) ppm <1 <1 <1 CONTAMINANTS method history2 >25 8 8 Silicon ppm ASTM D5185(m) 11 Sodium 6 ppm ASTM D5185(m) 6 6 Potassium ppm ASTM D5185(m) >20 <1 <1 <1 Fuel % ASTM D7593* >3.0 <1.0 <1.0 6.9 **INFRA-RED** Soot % % ASTM D7844* >6 1 0.7 0.7 Abs/cm 12.9 12.6 12.5 Nitration ASTM D7624* >20 Sulfation ASTM D7415* 26.0 Abs/.1mm >30 25.6 26.2



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Laboratory

Contact/Location: Frank Curran - CITPET