

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### DIRT

# NOVA BUS 1701

Component Diesel Engine Fluid VALVOLINE 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

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

High concentration of dirt present in the oil.

#### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.



#### SAMPLE INFORMATION WC0858048 WC0780471 WC0805032 Sample Number **Client Info** 18 Oct 2023 Sample Date Client Info 18 Jun 2023 16 May 2023 502582 Machine Age kms **Client Info** 484491 476083 Oil Age kms Client Info 0 0 0 Oil Changed Changed N/A N/A **Client Info** SEVERE Sample Status NORMAL NORMAL CONTAMINATION Fuel WC Method >3.0 <1.0 <1.0 <1.0 WC Method Glycol NEG NEG NEG WEAR METALS method 7 8 Iron ASTM D5185(m) >75 41 ppm 0 Chromium ppm ASTM D5185(m) >5 <1 <1 Nickel ASTM D5185(m) 0 0 <1 ppm >4 0 ASTM D5185(m) >2 n Titanium ppm <1 Silver ppm ASTM D5185(m) >2 <1 <1 0 Aluminum ASTM D5185(m) >15 2 1 2 ppm ASTM D5185(m) >25 <1 0 0 Lead ppm 2 3 Copper ASTM D5185(m) >100 17 ppm 0 Tin ppm ASTM D5185(m) >4 <1 0 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 14 83 88 ppm Barium ppm ASTM D5185(m) 1 <1 0 0 Molybdenum 49 12 ppm ASTM D5185(m) 12 12 ASTM D5185(m) Manganese 1 1 0 ppm <1 Magnesium ppm ASTM D5185(m) 616 25 79 87 Calcium ppm ASTM D5185(m) 1554 2248 2116 2299 899 993 Phosphorus ppm ASTM D5185(m) 836 1047 Zinc ASTM D5185(m) 1069 1007 1140 1199 ppm 2824 Sulfur ASTM D5185(m) 2624 2809 2928 ppm Lithium ASTM D5185(m) ppm <1 <1 <1 CONTAMINANTS method history2 >25 54 4 4 Silicon ASTM D5185(m) ppm ASTM D5185(m) 2 2 2 Sodium ppm Potassium ppm ASTM D5185(m) >20 <1 4 4 **INFRA-RED** method history2 % 0.2 0.3 0.3 Soot % ASTM D7844\* >6 Nitration Abs/cm ASTM D7624\* >20 8.0 8.9 8.8 20.5 22.9 Sulfation Abs/.1mm ASTM D7415\* >30 22.8 FLUID DEGRADATION method Oxidation Abs/.1mm ASTM D7414\* >25 15.1 20.2 20.1

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