

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

DIAGNOSIS

Recommendation

Contamination

Fluid Condition

suitable for further service.

Wear

oil

Coopersville CAT 7 CPVM07BE Component Biogas Engine

Machine Id

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (--- GAL)

SAMPLE INFORMATION method WC0819438 WC0819404 WC0765359 Sample Number **Client Info** 18 Jul 2023 28 Jun 2023 Sample Date Client Info 08 Jun 2023 101779 Machine Age hrs **Client Info** 68736 68269 Oil Age hrs Client Info 600 467 1 Oil Changed Client Info Not Changd Not Changd Changed Sample Status NORMAL NORMAL NORMAL CONTAMINATION Fuel WC Method >4.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG WEAR METALS 3 2 Iron ASTM D5185m >15 <1 ppm Chromium ASTM D5185m >4 0 ppm <1 <1 Nickel ASTM D5185m >2 0 0 0 ppm 0 ASTM D5185m 0 0 Titanium ppm Silver ppm ASTM D5185m >5 0 0 0 Aluminum ASTM D5185m >6 2 1 ppm <1 ASTM D5185m 0 0 Lead ppm >9 <1 ASTM D5185m Copper ppm >6 <1 1 <1 4 6 Tin ppm ASTM D5185m >4 1 0 Vanadium ASTM D5185m 0 0 ppm Cadmium ppm ASTM D5185m 0 0 0 6 6 5 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 0 0 6 6 5 Molybdenum ppm ASTM D5185m Manganese ppm ASTM D5185m <1 <1 <1 19 9 Magnesium ppm ASTM D5185m 16 Calcium ASTM D5185m 1863 1979 1749 ppm Phosphorus ppm ASTM D5185m 275 297 263 Zinc ppm ASTM D5185m 331 366 300 Sulfur 2839 ppm ASTM D5185m 2495 1826 CONTAMINANTS Silicon ASTM D5185m >181 100 166 26 ppm Sodium ASTM D5185m <1 <1 2 ppm Potassium ASTM D5185m >20 <1 1 <1 ppm **INFRA-RED** Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 5.4 6.2 4.8 Sulfation Abs/.1mm *ASTM D7415 >30 16.2 18.3 15.3 FLUID DEGRADATION *ASTM D7414 >25 8.9 10.8 8.2 Oxidation Abs/.1mm Acid Number (AN) mg KOH/g ASTM D8045 1.2 0.726 0.813 0.41 Base Number (BN) 6.55 mg KOH/g ASTM D2896 4.5 5.56 4.66



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