

## **OIL ANALYSIS REPORT**

Sample Rating Trend

# [63] A63 SPQ 1 Fire Pump

**Diesel Engine** 

Area **63** 

Wear

### HIGH PERFORMANCE LUBRICANTS HDMO 5W30 (8 GAL)

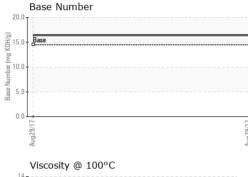
### DIAGNOSIS SAMPLE INFORMATION method limit/base current history1 history2 HPL006838 Sample Number **Client Info** Recommendation Resample at the next service interval to monitor. Sample Date Client Info 29 Aug 2017 Client Info Machine Age hrs 0 All component wear rates are normal. Oil Age hrs Client Info 12 Oil Changed N/A **Client Info** Contamination Sample Status MARGINAL There is a trace of moisture present in the oil. Fluid Condition CONTAMINATION method limit/base current history1 history2 The BN result indicates that there is suitable Fuel WC Method >5 <1.0 alkalinity remaining in the oil. The condition of the WC Method NEG Glycol oil is suitable for further service. WEAR METALS method limit/base current historv1 history2 Iron ASTM D5185m >100 26 ppm >20 Chromium ppm ASTM D5185m 1 Nickel ASTM D5185m >2 <1 ppm ASTM D5185m >2 2 Titanium ppm Silver ppm ASTM D5185m >2 0 Aluminum ASTM D5185m >20 9 ppm ASTM D5185m >40 7 Lead ppm ASTM D5185m Copper >330 192 ppm 2 Tin ppm ASTM D5185m >15 Antimony ASTM D5185m 0 ppm Vanadium ppm ASTM D5185m 0 Cadmium ASTM D5185m <1 ppm **ADDITIVES** method limit/base current historv1 historv2 Boron ppm ASTM D5185m 200 145 Barium ppm ASTM D5185m <1 Molybdenum ASTM D5185m 85 68 ppm ASTM D5185m Manganese ppm 8 Magnesium ASTM D5185m 525 383 ppm Calcium ppm ASTM D5185m 4300 3235 Phosphorus ASTM D5185m 1000 753 ppm Zinc ppm ASTM D5185m 1100 827 Sulfur ASTM D5185m 20200 8026 ppm CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 10 Sodium ASTM D5185m ppm 16 Potassium ppm ASTM D5185m >20 3 Water 0.102 % ASTM D6304 >0.2 ppm Water ppm ASTM D6304 >2000 **1020 INFRA-RED** limit/base method current history1 history2 % 0 Soot % \*ASTM D7844 >3 Nitration Abs/cm \*ASTM D7624 6. Sulfation Abs/.1mm \*ASTM D7415 23.

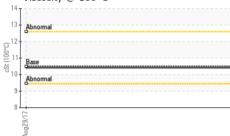


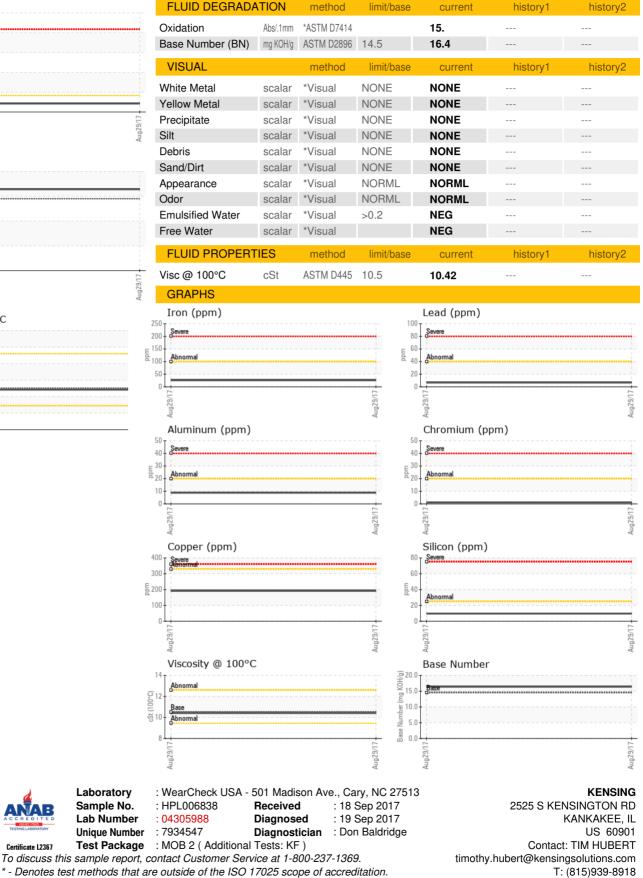


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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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