

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

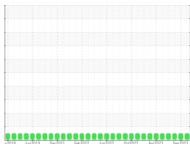


Machine Id Durham unit 2 (S/N 6181211)

Component Natural Gas Engine

D-A Lubricant Blue Flame HB-8 40W (--- GAL)

SAMPLE INFORMATION method





Recommendation
Resample at the next service interval to monitor.
Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

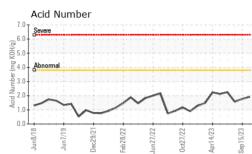
Fluid Condition

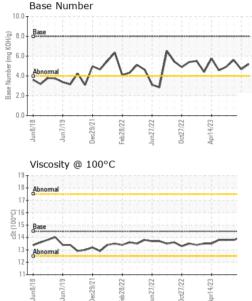
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample DateClient Info03 Oct 202315 Sep 202328 Aug 2023Machine AgehrsClient Info140551365413243Oil AgehrsClient Info0845434Oil ChangedClient InfoN/AN/AChangedSample StatusImather of the second secon
Machine AgehrsClient Info140551365413243Dil AgehrsClient Info0845434Dil ChangedClient InfoN/AN/AChangedSample StatusIINORMALNORMALNORMALWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>60999ChromiumppmASTM D5185m>511<1NickelppmASTM D5185m>5<1<1<1TitaniumppmASTM D5185m>5000
Dil AgehrsClient Info0845434Dil ChangedClient InfoN/AN/AChangedSample StatusImit/baseNORMALNORMALNORMALWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>60999ChromiumppmASTM D5185m>511<1NickelppmASTM D5185m>5<1<1<1TitaniumppmASTM D5185m>5<100SilverppmASTM D5185m>5000
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WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >60 9 9 9 Chromium ppm ASTM D5185m >5 1 1 <1 Nickel ppm ASTM D5185m >5 <1 <1 <1 Titanium ppm ASTM D5185m >5 <1 0 0 Silver ppm ASTM D5185m >5 0 0 0
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Chromium ppm ASTM D5185m >5 1 1 <1
Nickel ppm ASTM D5185m >5 <1
Titanium ppm ASTM D5185m <1
Silver ppm ASTM D5185m >5 0 0 0
Aluminum ppm $ASIM D5185m > 10$ 6 8 6
Lead ppm ASTM D5185m >25 <1 <1 <1
Copper ppm ASTM D5185m >100 2 1 1
Tin ppm ASTM D5185m >12 3 3 2
Vanadium ppm ASTM D5185m <1 0 0
Cadmium ppm ASTM D5185m <1
ADDITIVES method limit/base current history1 history2
Boron ppm ASTM D5185m 0 0 1
Barium ppm ASTM D5185m 0 2
Molybdenum ppm ASTM D5185m 6 6 6
Manganese ppm ASTM D5185m <1
Magnesium ppm ASTM D5185m 60 46 48
Calcium ppm ASTM D5185m 2416 2454 2481
Phosphorus ppm ASTM D5185m 387 357 368
Zinc ppm ASTM D5185m 465 482 468
Sulfur ppm ASTM D5185m 3725 4190 3849
CONTAMINANTS method limit/base current history1 history2
Silicon ppm ASTM D5185m >25 183 171 163
Sodium ppm ASTM D5185m >20 2 1 0
Potassium ppm ASTM D5185m >20 1 2 2
INFRA-RED method limit/base current history1 history2
Soot % *ASTM D7844 >2 0 0.1 0
Nitration Abs/cm *ASTM D7624 >20 7.3 7.2 7.3
Sulfation Abs/.1mm *ASTM D7415 >30 23.3 23.1 21.5
FLUID DEGRADATION method limit/base current history1 history2
Dxidation Abs/.1mm *ASTM D7414 >25 14.8 14.0 12.8
Acid Number (AN) mg KOH/g ASTM D8045 1.92 1.77 1.57
Base Number (BN) mg KOH/g ASTM D2896 8 5.19 4.66 5.61



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Certificate L2367