

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



LGS00181

Component

Middle Biogas Engine

CITGO PACEMAKER GAS ENGINE LFG LA 40 (--- GAL)

DIAGNOSIS

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 acceptable for the time in service.

| Sample Number Client Info WC0803449 WC0803447 WC0803 Sample Date Client Info 05 Nov 2023 23 Oct 2023 07 Aug 3 Machine Age hrs Client Info 62942 62775 62464 Oil Age hrs Client Info 328 160 589 Oil Changed Client Info N/A N/A N/A N/A Sample Status NORMAL NORMAL NORMAL ABNOR CONTAMINATION method limit/base current history1 hist Fuel WC Method >4.0 <1.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 hist Iron ppm ASTM D5185m >2 <1 <1 <1 Chromium ppm ASTM D5185m >2 <1 <1 <1 Nickel ppm ASTM | 2023 RMAL story2 |
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| Land ACTA DE 40E E | |
| Lead ppm ASTM D5185m >5 <1 2 | |
| Copper ppm ASTM D5185m >14 3 2 2 | |
| Tin ppm ASTM D5185m >13 1 1 5 | |
| Vanadium ppm ASTM D5185m 0 0 <1 | |
| Cadmium ppm ASTM D5185m <1 | |
| ADDITIVES method limit/base current history1 hist | tory2 |
| Boron ppm ASTM D5185m 2 2 | |
| Barium ppm ASTM D5185m 2 0 0 | |
| MolybdenumppmASTM D5185m342 | |
| Manganese ppm ASTM D5185m 0 <1 | |
| Magnesium ppm ASTM D5185m 23 22 17 | |
| Calcium ppm ASTM D5185m 1238 1285 1770 |) |
| Phosphorus ppm ASTM D5185m 268 309 334 | |
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| Zinc ppm ASTM D5185m 316 334 474 | 3 |
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OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number** Test Package

: WC0803449

: 05999202 : 10727562 : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Nov 2023 Received Diagnosed : 07 Nov 2023

: Sean Felton Diagnostician

BLACK OAK 5054 HWY HH HARTVILLE, MO US 65667

Contact: CHIP MATHEWS

chip.mattews@cubedistrictenergy.com T:

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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