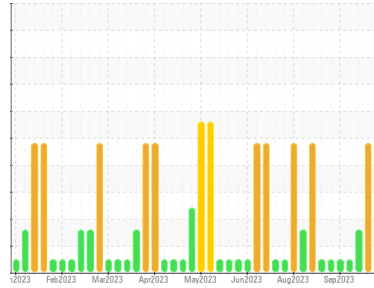




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
SJNM02BE
 Component
Biogas Engine
 Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (--- GAL)

DIAGNOSIS

Recommendation

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

Elemental level of silicon (Si) above normal.

Fluid Condition

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

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0764356 | WC0764358 | WC0764361 |
| Sample Date | Client Info | | 12 Oct 2023 | 05 Oct 2023 | 28 Sep 2023 |
| Machine Age | hrs | Client Info | 111162 | 110996 | 110833 |
| Oil Age | hrs | Client Info | 936 | 770 | 607 |
| Oil Changed | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | SEVERE | SEVERE | ABNORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >4.0 | <1.0 | <1.0 | <1.0 |
| Glycol | WC Method | | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >15 | 3 | 0 | 3 |
| Chromium | ppm | ASTM D5185m >4 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m >2 | 0 | 2 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >6 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185m >9 | 4 | 4 | 3 |
| Copper | ppm | ASTM D5185m >6 | 4 | 3 | 3 |
| Tin | ppm | ASTM D5185m >4 | 4 | 5 | 4 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 4 | 5 | 4 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 5 | 5 | 5 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 13 | 23 | 22 |
| Calcium | ppm | ASTM D5185m | 1820 | 1959 | 1953 |
| Phosphorus | ppm | ASTM D5185m | 251 | 300 | 311 |
| Zinc | ppm | ASTM D5185m | 313 | 397 | 380 |
| Sulfur | ppm | ASTM D5185m | 1940 | 2525 | 2348 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|------------|----------|----------|
| Silicon | ppm | ASTM D5185m >181 | 234 | 231 | 193 |
| Sodium | ppm | ASTM D5185m | 1 | 0 | <1 |
| Potassium | ppm | ASTM D5185m >20 | 0 | 3 | <1 |

INFRA-RED

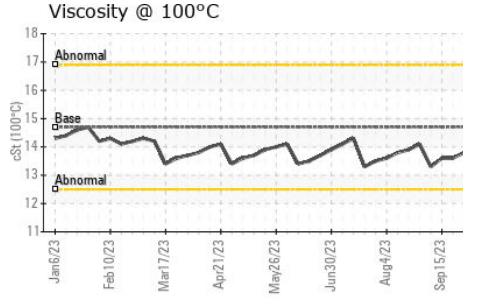
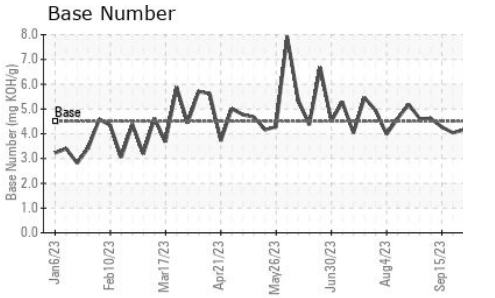
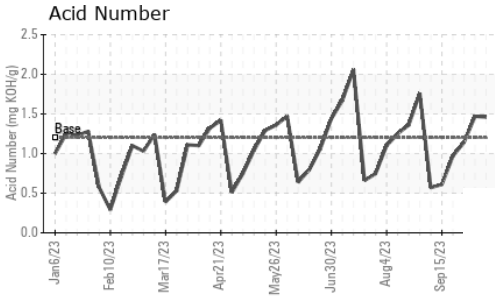
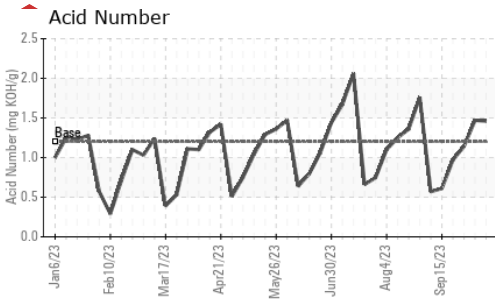
| | method | limit/base | current | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | 0.1 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 >20 | 7.6 | 7.3 | 6.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 22.4 | 21.7 | 20.4 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 18.1 | 16.8 | 14.7 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 1.2 | 1.46 | 1.47 | 1.14 |
| Base Number (BN) | mg KOH/g | ASTM D2896 4.5 | 4.00 | 5.02 | 4.15 |



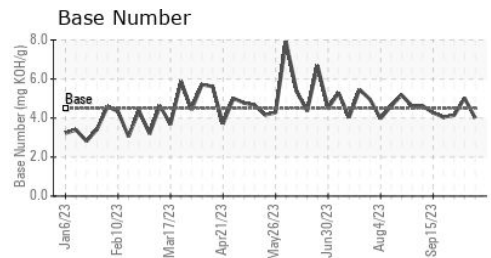
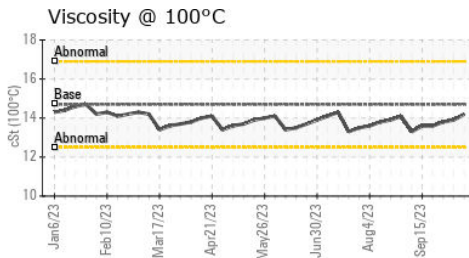
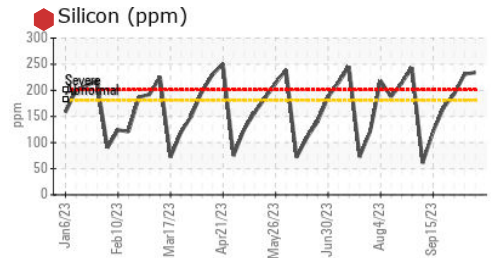
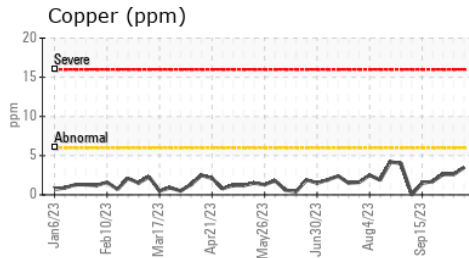
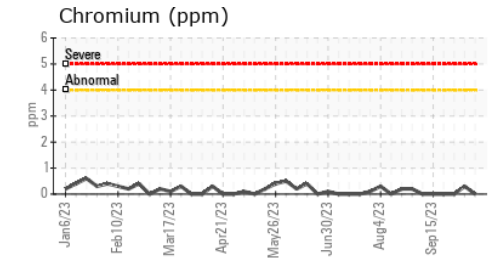
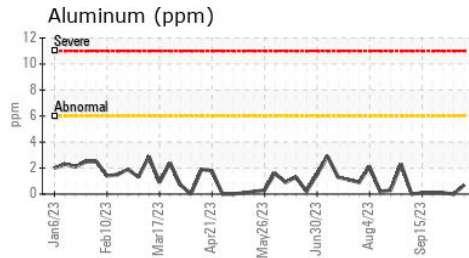
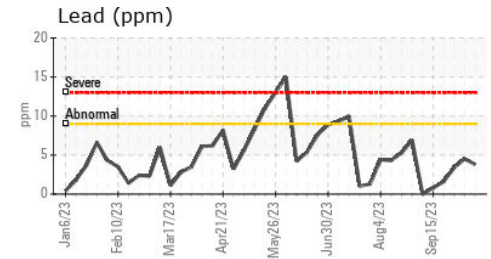
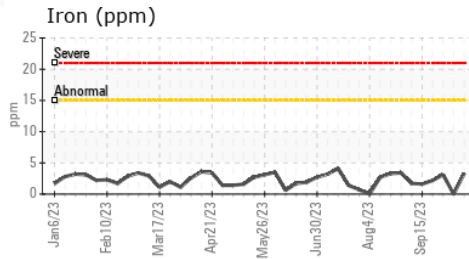
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 14.7 | 14.2 | 13.9 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0764356 **Received** : 16 Oct 2023
Lab Number : 05979897 **Diagnosed** : 18 Oct 2023
Unique Number : 10697192 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

EDL NA Recips-South Jordan
 South Jordan Powerstation, 10473 S. Bacchus Hwy.
 South Jordan, UT
 US 84095
 Contact: Aaron Klein
 aaron.klein@edlenergy.com

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)