

LABORATORY ANALYSIS



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SPIRE
14905 SINKS RD.
FLORRISANT, MO
United States 63034
Contact: Service Manager

Equipment No. **COMPRESSOR #3 OIL (00018)**
System **Unknown Component**
Oil Type **CITGO PACEMAKER 1240 (--- GAL)**

T:
F:

DIAGNOSIS

We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Copper (Cu) ppm levels are marginal. All other component wear rates are normal. There is no indication of any contamination in the sample. The condition of the sample is acceptable for the time in service.

SAMPLE INFORMATION

| | | | | |
|---------------------|-----------|--------------------|-----|-----|
| Lab Number | New | 2311-00104 | --- | --- |
| Date of Sample | (Typical) | 03 Nov 2023 | --- | --- |
| Oil Added | | UNK | --- | --- |
| Last Drain Date | | -- | --- | --- |
| Last Filter Service | | -- | --- | --- |
| Sample Point | | --- | --- | --- |
| Sample Status | | MARGINAL | --- | --- |

VISCOSITY @ 100F OR 40C (ASTM D-445)

| | | | | |
|-----------------|-----|--------------|-----|-----|
| SSU Vis. @ 100F | SSU | 692.2 | --- | --- |
|-----------------|-----|--------------|-----|-----|

% WATER - KARL FISCHER (ASTM E203)

| | | | | |
|----------------|-----|--------------|-----|-----|
| % Water (KF) | % | 0.046 | --- | --- |
| ppm Water (KF) | ppm | 460 | --- | --- |

ICP - OILS (REPORTED IN PARTS PER MILLION)

| | | | | |
|----------------|---------|--------------|-----|-----|
| Aluminum (Al) | ppm | <5 | --- | --- |
| Antimony (Sb) | ppm | <5 | --- | --- |
| Cadmium (Cd) | ppm | <5 | --- | --- |
| Chromium (Cr) | ppm | <5 | --- | --- |
| Cobalt (Co) | ppm | <5 | --- | --- |
| Copper (Cu) | ppm | ▲ 11 | --- | --- |
| Iron (Fe) | ppm | 15 | --- | --- |
| Lead (Pb) | ppm | 9 | --- | --- |
| Manganese (Mn) | ppm | <5 | --- | --- |
| Molybdenum(Mo) | ppm | <5 | --- | --- |
| Nickel (Ni) | ppm | <5 | --- | --- |
| Silver (Ag) | ppm | <5 | --- | --- |
| Tin (Sn) | ppm | 7 | --- | --- |
| Titanium (Ti) | ppm | <5 | --- | --- |
| Vanadium (V) | ppm | <5 | --- | --- |
| Barium (Ba) | ppm | <5 | --- | --- |
| Boron (B) | ppm | <5 | --- | --- |
| Calcium (Ca) | ppm | 1,240 | --- | --- |
| Magnesium (Mg) | ppm | 12 | --- | --- |
| Phosphorus(P) | ppm 500 | 305 | --- | --- |
| Silicon (Si) | ppm | <5 | --- | --- |
| Zinc (Zn) | ppm | 381 | --- | --- |
| Sulfur (S) | ppm | 1,790 | --- | --- |

Customer Id: ENC0134J01
Sample No.: EN23110104
Lab Number: 23110104
Test Package: TEST



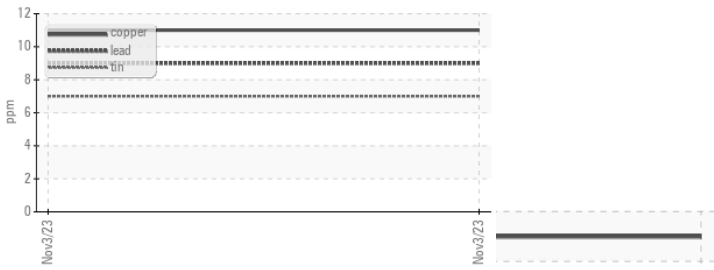
To manage this report scan the QR code

To discuss the diagnosis or test data:
Tracy Weaks +1 (314)872-9540
tweaks@englube.com

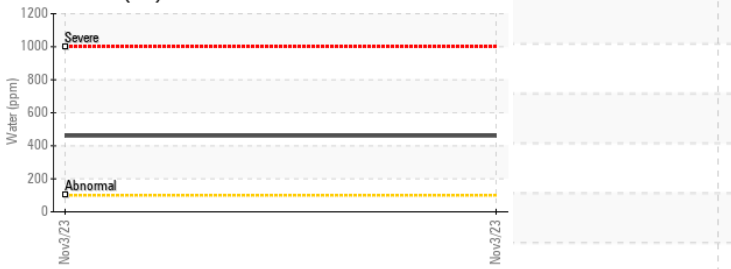
To change component or sample information:
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OIL ANALYSIS REPORT

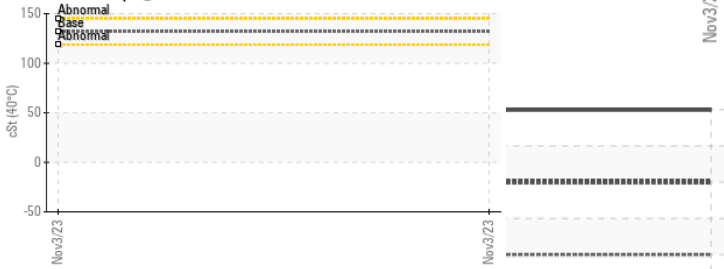
▲ Non-ferrous Metals



Water (KF)



Viscosity @ 40°C



Viscosity @ 40°C

