

LABORATORY ANALYSIS



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COPELAND(EMERSON CLIMATE TECHNOLOGIES)
3101 W MILITARY HWY BUILDING 2, (SALTILLO PLANT)
SALTILLO, AM
MX
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Department **WINDING**
Equipment No. **BLOCKER 06-LINEA 06-CELDA 7.1 (00028)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (99 GAL)**

DIAGNOSIS

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | | | | |
|---------------------|-----------|--------------------|-----|-----|
| Lab Number | New | 2311-00653 | --- | --- |
| Date of Sample | (Typical) | 26 Oct 2023 | --- | --- |
| Oil Added | | UNK | --- | --- |
| Last Drain Date | | -- | --- | --- |
| Last Filter Service | | -- | --- | --- |
| Sample Point | | --- | --- | --- |
| Sample Status | | NORMAL | --- | --- |

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

| | | | | |
|-----------------|-----|--------------|--------------|-----|
| SSU Vis. @ 100F | SSU | 161.2 | --- | --- |
| cSt Vis. @ 40C | cSt | 32.0 | 31.15 | --- |

COLOR (BASED ON ASTM D1500 STANDARDS)

| | | | | |
|-------|-----------|------------|-----|-----|
| Color | Scale 0-8 | 0.5 | --- | --- |
|-------|-----------|------------|-----|-----|

PARTICLE COUNT (PER 1ML)

| | | | | | |
|--------------------|--------------|-----------|-----------------|-----|-----|
| ISO CODE | ISO 4406(c) | >19/18/14 | 19/15/11 | --- | --- |
| 4 Micron & Larger | particles/ml | >5000 | 3,169 | --- | --- |
| 6 Micron & Larger | particles/ml | >2500 | 301 | --- | --- |
| 14 Micron & Larger | particles/ml | >160 | 12 | --- | --- |
| 21 Micron & Larger | particles/ml | >40 | 5 | --- | --- |
| 38 Micron & Larger | particles/ml | >10 | 0 | --- | --- |
| 70 Micron & Larger | particles/ml | >3 | 0 | --- | --- |

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 | <5 | --- | --- |
| Iron (Fe) | ppm | <5 | --- | --- |
| Lead (Pb) | ppm | <5 | --- | --- |
| Manganese (Mn) | ppm | <5 | --- | --- |
| Molybdenum(Mo) | ppm | <5 | --- | --- |
| Nickel (Ni) | ppm | <5 | --- | --- |
| Silver (Ag) | ppm | <5 | --- | --- |
| Tin (Sn) | ppm | <5 | --- | --- |
| Titanium (Ti) | ppm | <5 | --- | --- |
| Vanadium (V) | ppm | <5 | --- | --- |
| Barium (Ba) | ppm | <5 | --- | --- |
| Boron (B) | ppm | <5 | --- | --- |
| Calcium (Ca) | ppm | 68 | --- | --- |
| Magnesium (Mg) | ppm | <5 | --- | --- |
| Phosphorus(P) | ppm | 533 | --- | --- |
| Silicon (Si) | ppm | <5 | --- | --- |
| Zinc (Zn) | ppm | 668 | 622 | --- |
| Sulfur (S) | ppm | 1,680 | --- | --- |

Customer Id: EMESAL
Sample No.: EN23110653
Lab Number: 23110653
Test Package: TEST



To manage this report scan the QR code

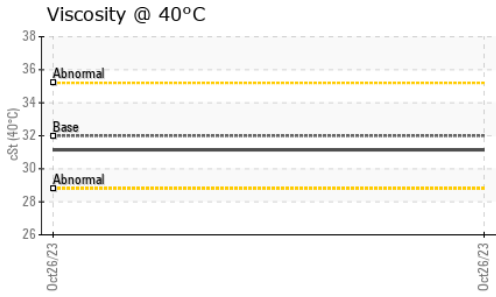
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

| | | | | |
|-----|---------|--------|-----|-----|
| L | | ■ 8.7 | --- | --- |
| S | | ■ 1.4 | --- | --- |
| WPC | DL + DS | ■ 10.1 | --- | --- |

CONTAMINATION

| | | | | |
|-------|-------|------------|-----|-----|
| Water | >0.05 | NEG | --- | --- |
|-------|-------|------------|-----|-----|