

LABORATORY ANALYSIS



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MOMENTIVE TECHNOLOGIES
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STRONGSVILLE, OH
United States 44149
Contact: Service Manager

Equipment No. **HOT PRESS #3 (00003)**
System **Hydraulic System**
Oil Type **ECOSAFE FR-46 (50 GAL)**

T:
F:

DIAGNOSIS

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

| Lab Number | New | 2311-00055 | 2302-00297 | 2206-00090 |
|---------------------|-----------|--------------------|-------------|-------------|
| Date of Sample | (Typical) | 30 Oct 2023 | 18 Jan 2023 | 03 Jun 2022 |
| Oil Added | | UNK | UNK | UNK |
| Last Drain Date | | -- | -- | -- |
| Last Filter Service | | -- | -- | -- |
| Sample Point | | --- | --- | --- |
| Sample Status | | ABNORMAL | SEVERE | ABNORMAL |

VISCOSITY INDEX (ASTM D445)

| cSt Vis. @ 40C | cSt | 46 | 51.92 | 51.42 | 51.38 |
|-----------------|-----|-----|--------------|-------|-------|
| SSU Vis. @ 100F | SSU | | 241.4 | 239.1 | 238.9 |
| cSt Vis. @ 100C | cSt | | 9.45 | 9.52 | 9.48 |
| SSU Vis. @ 210F | SSU | | 57.32 | 57.6 | 57.4 |
| cSt Vis. @ 40C | cSt | 46 | 51.92 | 51.42 | 51.38 |
| SSU Vis. @ 40C | SSU | | 241.4 | 239.1 | 238.9 |
| cSt Vis. @ 100C | cSt | | 9.45 | 9.52 | 9.48 |
| SSU Vis. @ 100C | SSU | | 57.32 | 57.6 | 57.4 |
| Viscosity Index | | 185 | 168 | 172 | 171 |

PARTICLE COUNT (PER 1ML)

| ISO CODE | ISO 4406(c) | >19/17/14 | 21/18/15 | 23/20/15 | 22/18/13 |
|--------------------|--------------|-----------|-----------------|----------|----------|
| 4 Micron & Larger | particles/ml | >5000 | ▲ 11,154 | ▲ 48,545 | ▲ 23,346 |
| 6 Micron & Larger | particles/ml | >1300 | ▲ 2,004 | ▲ 9,343 | ▲ 1,514 |
| 14 Micron & Larger | particles/ml | >160 | ▲ 239 | ▲ 241 | ■ 75 |
| 21 Micron & Larger | particles/ml | >40 | ▲ 72 | 53 | ■ 29 |
| 38 Micron & Larger | particles/ml | >10 | ■ 3 | ■ 5 | ■ 3 |
| 70 Micron & Larger | particles/ml | >3 | ■ 0 | ■ 1 | ■ 0 |

ICP - OILS (REPORTED IN PARTS PER MILLION)

| | | | | |
|----------------|-----|----------------|---------|---------|
| Aluminum (Al) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Antimony (Sb) | ppm | <5 | <5 | <5 |
| Cadmium (Cd) | ppm | <5 | <5 | <5 |
| Chromium (Cr) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Cobalt (Co) | ppm | <5 | <5 | <5 |
| Copper (Cu) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Iron (Fe) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Lead (Pb) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Manganese (Mn) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Molybdenum(Mo) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Nickel (Ni) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Silver (Ag) | ppm | <5 | <5 | <5 |
| Tin (Sn) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Titanium (Ti) | ppm | <5 | <5 | <5 |
| Vanadium (V) | ppm | <5 | <5 | <5 |
| Barium (Ba) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Boron (B) | ppm | ■ 10 | ■ 11 | ■ 10 |
| Calcium (Ca) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Magnesium (Mg) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Phosphorus(P) | ppm | ■ 701 | ■ 659 | ■ 570 |
| Silicon (Si) | ppm | ■ <5 | ■ <5 | ■ <5 |
| Zinc (Zn) | ppm | ■ <5 | ■ 6 | ■ <5 |
| Sulfur (S) | ppm | ■ 2,940 | ■ 2,570 | ■ 2,470 |

Customer Id: ENC0121S01
Sample No.: EN23110055
Lab Number: 23110055
Test Package: TEST



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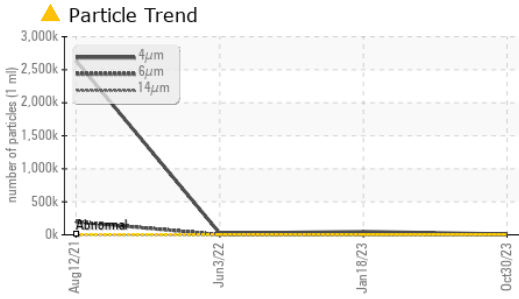
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OIL ANALYSIS REPORT



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