

LABORATORY ANALYSIS



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

Equipment No. **COSMETIC FILTER PRESS (00007)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 25-AW (--- GAL)**

T:
F:

DIAGNOSIS

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| Lab Number | New | 2311-00062 | 2302-00304 | 2206-00097 |
|---------------------|-----------|--------------------|-------------|-------------|
| 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 | SEVERE |

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

| SSU Vis. @ 100F | SSU | 335.3 | 332.9 | 322.8 |
|-----------------|-----|-------|-------|-------|
| cSt Vis. @ 40C | cSt | 56 | 64.23 | 62.30 |

PARTICLE COUNT (PER 1ML)

| ISO CODE | ISO 4406(c) | >19/17/14 | 20/18/14 | 23/22/18 | 21/19/15 |
|--------------------|--------------|-----------|----------------|----------|----------|
| 4 Micron & Larger | particles/ml | >5000 | ▲ 9,609 | 74,514 | ▲ 11,089 |
| 6 Micron & Larger | particles/ml | >1300 | ▲ 2,065 | 24,429 | ▲ 2,845 |
| 14 Micron & Larger | particles/ml | >160 | ■ 97 | 2,078 | ▲ 187 |
| 21 Micron & Larger | particles/ml | >40 | ■ 17 | 457 | 42 |
| 38 Micron & Larger | particles/ml | >10 | ■ 1 | 24 | 2 |
| 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 | | <5 | <5 | <5 |
| Calcium (Ca) | ppm | 80 | ■ 36 | 37 | 33 |
| Magnesium (Mg) | ppm | | <5 | <5 | <5 |
| Phosphorus(P) | ppm | 532 | ▲ 259 | 265 | 234 |
| Silicon (Si) | ppm | | ■ <5 | <5 | <5 |
| Zinc (Zn) | ppm | 668 | ▲ 322 | 325 | 293 |
| Sulfur (S) | ppm | 1545 | ▲ 533 | 539 | 629 |

DR FERROGRAPHY READINGS

| | | | | |
|-----|---------|---------------|--------|--------|
| L | | ■ 11.4 | 33.6 | ▲ 25.3 |
| S | | ■ 1.8 | 7.2 | 24.0 |
| WPC | DL + DS | ■ 13.2 | ▲ 40.8 | 49.3 |

Customer Id: ENC0121S01
Sample No.: EN23110062
Lab Number: 23110062
Test Package: TEST

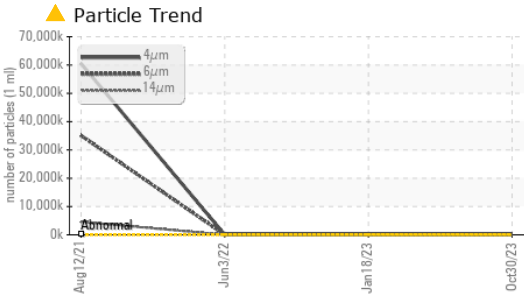


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OIL ANALYSIS REPORT



CONTAMINATION

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

