

LABORATORY ANALYSIS



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Department **PRESS ROOM**
 Equipment No. **PP-12 PRESS (00017)**
 System **Gear Lube System**
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 71-EP (--- GAL)**

MODINEER PLANT 7
 #17 CERMAK BLVD., MODINEER PLANT #7
 ST. PETERS, MO
 US 63376
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 T:
 F:

DIAGNOSIS

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. 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 | 2311-00695 | 2306-00385 | 2211-00754 |
|---------------------|-----------|--------------------|-------------|-------------|
| Date of Sample | (Typical) | 28 Nov 2023 | 09 Jun 2023 | 29 Nov 2022 |
| Oil Added | | UNK | UNK | UNK |
| Last Drain Date | | -- | -- | -- |
| Months on Sample | | 57.1 | 51.5 | 45.3 |
| Last Filter Service | | -- | -- | -- |
| Sample Point | | --- | --- | --- |
| Sample Status | | ABNORMAL | NORMAL | NORMAL |

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

| SSU Vis. @ 100F | SSU | 775.8 | 779.6 | 772.2 |
|-----------------|-----|-------|-------|-------|
| cSt Vis. @ 40C | cSt | 150 | 148.5 | 147.1 |

PARTICLE COUNT (PER 1ML)

| ISO CODE | ISO 4406(c) | >23/22/16 | 20/18/15 | 20/17/13 | 22/19/15 |
|--------------------|--------------|-----------|--------------|----------|----------|
| 4 Micron & Larger | particles/ml | >80000 | 6,661 | 5,930 | 28,633 |
| 6 Micron & Larger | particles/ml | >40000 | 1,687 | 795 | 4,754 |
| 14 Micron & Larger | particles/ml | >640 | 178 | 42 | 300 |
| 21 Micron & Larger | particles/ml | >160 | 55 | 13 | 91 |
| 38 Micron & Larger | particles/ml | >40 | 5 | 1 | 17 |
| 70 Micron & Larger | particles/ml | >10 | 1 | 0 | 5 |

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 | 13 | 14 | 15 | |
| 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 | <5 | <5 | <5 | |
| Magnesium (Mg) | ppm | <5 | <5 | <5 | |
| Phosphorus(P) | ppm | 234 | 173 | 184 | 194 |
| Silicon (Si) | ppm | <5 | <5 | <5 | |
| Zinc (Zn) | ppm | <5 | <5 | <5 | |
| Sulfur (S) | ppm | 4,360 | 4,270 | 4,490 | |

DR FERROGRAPHY READINGS

| | | | | |
|-----|---------|-------------|-----|------|
| L | | 8.7 | 7.5 | 45.6 |
| S | | 1.9 | 3.5 | 13.8 |
| WPC | DL + DS | 10.6 | 11 | 59.4 |

Customer Id: WAISTP
 Sample No.: EN23110695
 Lab Number: 23110695
 Test Package: TEST



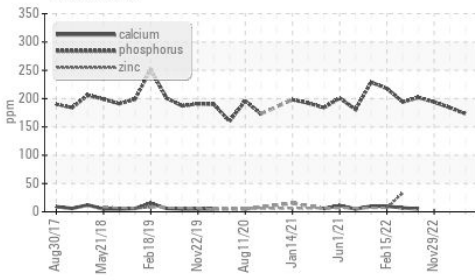
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OIL ANALYSIS REPORT

▲ Additives



CONTAMINATION

| | | | |
|-------|------|------------|-----|
| Water | >0.1 | NEG | NEG |
|-------|------|------------|-----|

Viscosity @ 40°C

