

LABORATORY ANALYSIS



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Department **DIECAST**
Equipment No. **14D3398 ANNEAL QUENCH SHUTTLE #3 (X0010)**
System **Quenching Fluid**
Oil Type **ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO (450 GAL)**

DIAGNOSIS

{not applicable} There is no indication of any contamination in the quenching fluid. The condition of the quenching fluid is suitable for service.

SAMPLE INFORMATION

| | | | | |
|---------------------|-----------|--------------------|-------------|-------------|
| Lab Number | New | 2306-00730 | 2305-00012 | 2302-00398 |
| Date of Sample | (Typical) | 21 Jun 2023 | 27 Apr 2023 | 09 Feb 2023 |
| Oil Added | | UNK | UNK | UNK |
| Last Drain Date | | -- | -- | -- |
| Last Filter Service | | -- | -- | -- |
| Sample Point | | --- | --- | --- |
| Sample Status | | ATTENTION | ABNORMAL | ABNORMAL |

RATIO PER REFRACTOMETER

| | | | | |
|------------------|-----------|----------------|---------|---------|
| Refract. Reading | | 2.6 | 3.5 | 3.4 |
| Refract. Model | | DIGITAL | DIGITAL | DIGITAL |
| Refract. Ratio | oil:water | 11:1 | 8:1 | 8:1 |

ALKALINE RESERVE (ADDITION OF DEIONIZED WATER IS PREFERRED)

| | | | | |
|------------------|--|------------|-----|-----|
| Alkaline Reserve | | 123 | 150 | 147 |
|------------------|--|------------|-----|-----|

PH (ASTM E-70)

| | | | | |
|-------------|------------|-----------------|----------|----------|
| pH | Scale 0-14 | 9.3 | 9.0 | 9.0 |
| Ratio Rec'd | oil:water | AS REC'D | AS REC'D | AS REC'D |

HARDNESS (MG/L CaCO3)

| | | | | |
|------------------|------|----------------|------|------|
| Hardness (CaCO3) | mg/L | <6.6 | <6.6 | <6.6 |
| Grains | | <1.0 | <1.0 | <1.0 |

TOTAL AMINE

| | | | | |
|----------|-----------|-------------|------|------|
| Total | mmol/gram | 0.14 | 0.17 | 0.17 |
| Tertiary | mmol/gram | 0.08 | 0.12 | 0.11 |
| Primary | mmol/gram | 0.06 | 0.05 | 0.06 |

CIC CORROSION

| | | | | |
|---------------|---|-----------------|----------|----------|
| CIC Dilution | | AS REC'D | AS REC'D | AS REC'D |
| CIC Corrosion | % | 0.0 | 0.0 | 0.0 |

GRAVIMETRIC, MG/L

| | | | | |
|---------------|------|-------------|------|------|
| Filter Micron | μ | 0.45 | 0.45 | 0.45 |
| Gravimetric | mg/L | 8 | 72 | 60 |

BACTERIA COUNT (CLASS RANGE 0 TO 6)

| | | | | |
|----------------|-----------|----------|---|---|
| Bacteria Class | Scale 0-6 | 0 | 0 | 0 |
|----------------|-----------|----------|---|---|

FUNGUS COUNT (CLASS RANGES: YEAST 0 TO 4/MOLD 0 TO 3)

| | | | | |
|-------------|-----------|----------|---|---|
| Yeast Class | Scale 0-4 | 0 | 0 | 0 |
| Mold Class | Scale 0-3 | 0 | 0 | 0 |

ENERGY DISPERSIVE XRF (*BELOW MINIMUM DETECTION LIMIT)

| | | | | |
|-------------------|-----|---|---|---|
| ppm Chlorine (Cl) | ppm | * | * | * |
|-------------------|-----|---|---|---|

Customer Id: EMERUS
Sample No.: EN23060730
Lab Number: 23060730
Test Package: TEST



To manage this report scan the QR code

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FUEL REPORT

