

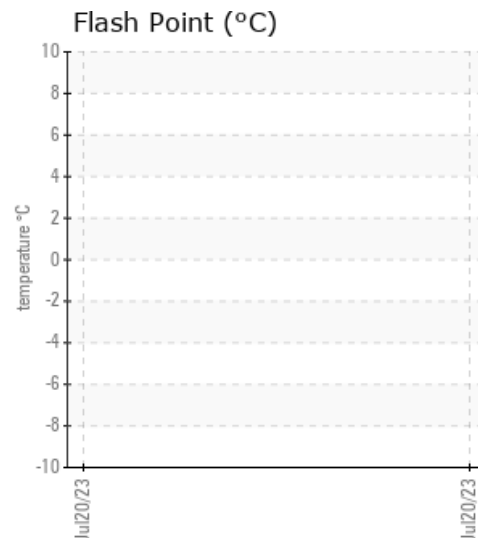
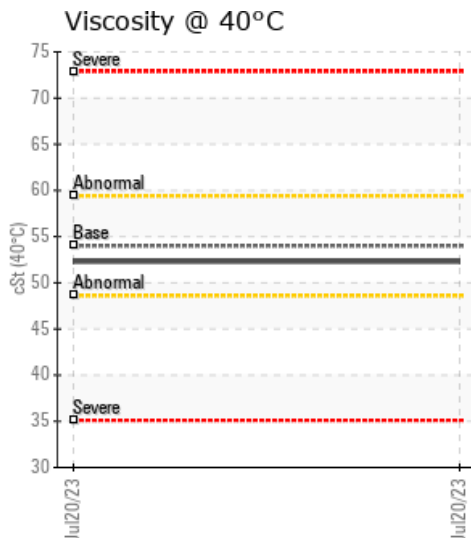
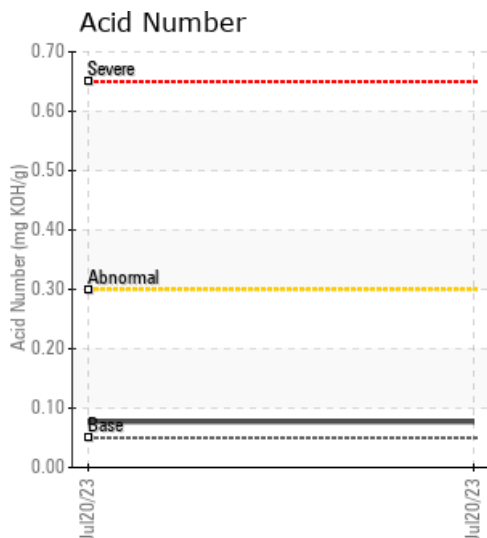
LAMINATION

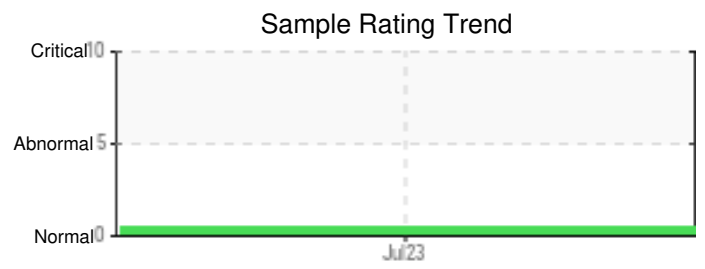
| Customer: | System Information | Sample Information |
|---|--|--|
| ROBERT BOSCH LLC 1980 INDIAN CREEK LINCOLNTON, NC 28092 US Attn: JOSEPH SALAZAR Tel: (704)616-3686 E-Mail: joseph.salazar@us.bosch.com | System Volume: 80 ltr Bulk Operating Temp: Not Specified Heating Source: Blanket: Fluid: SHELL HEAT TRANSFER OIL S2 X Make: | Lab No: 05932148 Analyst: Doug Bogart Sample Date: 07/20/23 Received Date: 08/23/23 Completed: 09/08/23 Doug Bogart dougb@wearcheckusa.com |

Recommendation: Resample at the next service interval to monitor. Simulated Distillation and Solids performed at WearCheck Canada.

Comments: All component wear rates are normal. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 07/20/23 | 08/23/23 | 0.0h | | | 0.00 | 52.3 | 0.077 | 0.038 | 747 / 397 | 858 / 459 | 973 / 523 | 0.17 |
| Baseline Data | | | | 500 / 260 | | 54 | 0.05 | | | | | |

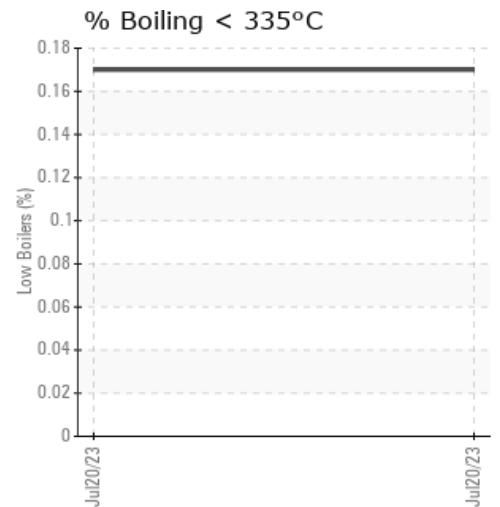
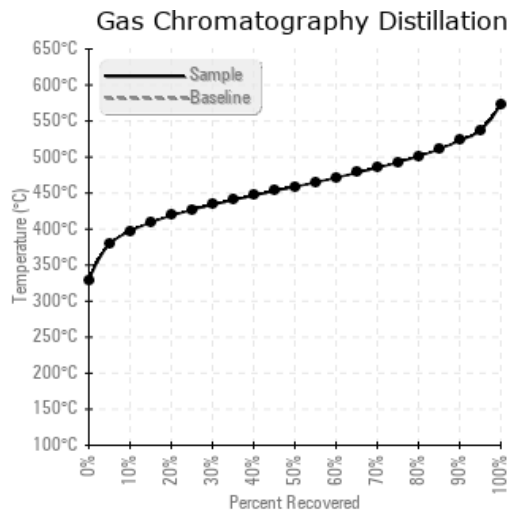




| Sample Date | Iron | Chromium | Nickel | Aluminum | Copper | Lead | Tin | Cadmium | Silver | Vanadium | Silicon | Sodium | Potassium | Titanium | Molybdenum | Antimony | Manganese | Lithium | Boron | Magnesium | Calcium | Barium | Phosphorus | Zinc |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 07/20/23 | 11 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | 0 | 1 | 30 | 0 | 18 | 14 |
| Baseline Data | | | 0 | 0 | | | | | | 0 | | | 0 | 0 | | | | 0 | 0 | | | | 0 | |

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]

GCD Spectrum



Historical Comments

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