# OFITE Viscometer Calibration Report

Oil Calibration Per API Recommended Practices; 13B-1 Annex I.5, 13B-2 Annex J.5, 10B-2 Annex B.3.6 and Specification 13A Section 5.2.6

| | | | |
|---|---|---|---|
| **Order Number:** | 303911 | **Condition Found:** | |
| **Serial # / Local I.D. #:** | 537900000002 | **Condition Left:** | In Calibration |
| **Calibration Date:** | 12/2/2025 | **Repairs Required:** | Yes |
| ***Recommended Due Date:** | 12/2/2026 | **As Found Required:** | No |
| **Certificate Number:** | 53790000000245993 | **Bob:** | B1 |
| **Part Number:** | 130-76 | **Spring:** | F1 |
| **Model:** | Model 900 Viscometer | | |

**OFI Testing Equipment, Inc. - 11302 Steeplecrest Dr - Houston, Texas - 77065 - Phone: 832.320.7300 - Web: www.ofite.com**

| TESTING CONDITION AND CALIBRATION FLUIDS INFORMATION | | | | | | |
|---|---|---|---|---|---|---|
| **Ambient Conditions** | **Lab / Room Temperature** | **°F** | **°C** | **Lab / Room Humidity** | | 48.2 % |
| | | 69.1 °F | 20.6 °C | | | |
| **Calibration Fluid Activation Date and LOT Number** | **100 cP** | **Activation Date** | **Calibration Fluid LOT Number** | **50 cP** | **Activation Date** | **Calibration Fluid LOT Number** |
| | | 11/20/2025 | 423912 | | 11/20/2025 | 228501 |
| | **(Activation Date should not exceed 30 days of the calibration date)** | | | | | |

| RPM CHECK | ± 1 RPM for speeds <100 RPM | | ± 1 % of nominal speed of 100 RPM or Greater | | | |
|---|---|---|---|---|---|---|
| **Speed Setting** | **3.0 RPM** | **6.0 RPM** | **100.0 RPM** | **200.0 RPM** | **300.0 RPM** | **600.0 RPM** |
| **Actual** | 3.0 RPM | 6.0 RPM | 100.4 RPM | 200.3 RPM | 300.2 RPM | 600.3 RPM |
| **Allowed Deviation** | ± 1.00 RPM | ± 1.00 RPM | ± 1.00 RPM | ± 2.00 RPM | ± 3.00 RPM | ± 6.00 RPM |
| **Actual Deviation** | 0.0 RPM | 0.0 RPM | 0.4 RPM | 0.3 RPM | 0.2 RPM | 0.3 RPM |
| **Pass / Fail** | Pass | Pass | Pass | Pass | Pass | Pass |
| **Per API RP 10B-2 Annex B, Equipment Calibration Requirements** | | | | | | |

**AS LEFT MEASUREMENTS**

| Calibration Fluid Viscosity | Calibration Fluid LOT Number | Calibration Fluid Temperature | Calibrated Viscosity (CV) | 600 RPM Reading | 600 VIS: 600 Reading * 0.5050 | Accepted Deviation | Actual Deviation ** (600 VIS - CV) | 300 RPM Reading | 300 VIS: 300 Reading * 1.0000 | Accepted Deviation | Actual Deviation (300 VIS - CV) | 200 RPM Reading | 200 VIS: 200 Reading / 0.6667 | Accepted Deviation | Actual Deviation (200 VIS - CV) | 100 RPM Reading | 100 VIS: 100 Reading / 0.3333 | Accepted Deviation | Actual Deviation (100 VIS - CV) | Pass/Fail |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **100 cP** | 423912 | 21.7 °C | 101.0 | 199.1 | 100.55 | ±1.50 | -0.45 | 101.1 | 101.1 | ±1.50 | 0.10 | 67.3 | 100.94 | ±1.50 | -0.06 | 34.0 | 102.01 | ±1.50 | 1.01 | Pass |
| **50 cP** | 228501 | 21.5 °C | 51.5 | 100.0 | 50.50 | ±1.50 | -1.00 | 50.9 | 50.9 | ±1.50 | -0.60 | 34.1 | 51.15 | ±1.50 | -0.35 | 17.1 | 51.31 | ±1.50 | -0.19 | Pass |
| | | | | | | | | | | | | | | | | | **As Left Calibration Results** | | | Pass |

** For viscometers not using a B1F1 configuration, the 600 rpm reading is shown, but is not used for determining a pass/fail.

Factory Recommendations*: Factory recalibration is recommended annually. Uncertainty: 0.5%

Calibration requirements are determined per customer's Quality Management System.

Per API RP 13B-1 and -2, viscometers used for testing drilling fluids should be verified with a traceable calibration fluid at least monthly.

Per API RP 10B-2, viscometers used for testing cements should be verified for accuracy with a traceable calibration fluid at least quarterly.

| | | |
|---|---|---|
| Magdy Beshay | 12/2/2025 | Magdy Beshay |
| Calibration Technician | Date | Technician Signature |
| Samantha Korenek | 12/3/2025 | Samantha Korenek |
| Reviewed By | Date | Reviewer Signature |

| CALIBRATION EQUIPMENT | | | | | | |
|---|---|---|---|---|---|---|
| **Fluid Thermometer** | 325 | 90080-09 | 192283357 | C-52614 | 7/23/2025 | 7/23/2026 |
| | **I.D. Number** | **Model Number** | **Serial Number** | **Certificate Number** | **Calibration Date** | **Calibration Due Date** |
| **Tachometer** | 708 | R7050 | 230832873 | C-46743 | 2/6/2025 | 2/6/2026 |
| | **I.D. Number** | **Model Number** | **Serial Number** | **Certificate Number** | **Calibration Date** | **Calibration Due Date** |
| **Ambient Monitor / Thermometer** | 261 | EA20 | Z375174 | C-47065 | 1/31/2025 | 1/31/2026 |
| | **I.D. Number** | **Model Number** | **Serial Number** | **Certificate Number** | **Calibration Date** | **Calibration Due Date** |

**AS LEFT REPORT**

**List all repairs made to the unit under AS LEFT measurements.**



This report meets or exceeds the requirements outlined in API RP 13B-1 Recommended Practice for Field Testing Water-based Drilling Fluids and API RP 13B-2 Recommended Practice for Field Testing Oil-based Drilling Fluids for calibration of laboratory devices, using certified master test equipment that is traceable to NIST which is a signatory to the Mutual Recognition Arrangement (MRA) with the International Laboratory Accreditation Cooperation (ILAC).