



OFI Testing Equipment, Inc.
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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

Repairs Required? Yes

As Found Data Required by Customer? No

Part Number: 130-10

Model: Model 800 Viscometer

Serial Number: 12-4661-001

S/O# or J/O# 39811

Bob B1 Spring F1

| RPM Check | ± 1 RPM for speeds <100 RPM | | ± 1 % of nominal speed of 100 RPM or Greater | | | |
|----------------------|-----------------------------|------------|--|-----------|-----------|-----------|
| Speed Setting (RPM): | 3 RPM | 6 RPM | 100 RPM | 200 RPM | 300 RPM | 600 RPM |
| Actual: | 3.0 RPM | 6.0 RPM | 100.2 RPM | 200.2 RPM | 299.3 RPM | 599.4 RPM |
| Allowed Deviation: | ± 1.00 RPM | ± 1.00 RPM | ± 1.0 RPM | ± 2.0 RPM | ± 3.0 RPM | ± 6.0 RPM |
| Actual Deviation: | 0.0 RPM | 0.0 RPM | 0.2 RPM | 0.2 RPM | 0.7 RPM | 0.6 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 Batch # | Temp | Calibrated Viscosity (CV) | 600 RPM Reading | 600 VIS: 600 Reading * 0.5050 | Accepted Deviation | Actual Deviation** | 300 RPM Reading | 300 VIS: 300 Reading * 1.0000 | Accepted Deviation | Actual Deviation | 200 RPM Reading | 200 VIS: 200 Reading / 0.6667 | Accepted Deviation | Actual Deviation | 100 RPM Reading | 100 VIS: 100 Reading / 0.3333 | Accepted Deviation | Actual Deviation (100 VIS - CV) | Pass/Fail |
|-----------------------------|---------------------------|------|---------------------------|-----------------|-------------------------------|--------------------|--------------------|-----------------|-------------------------------|--------------------|------------------|-----------------|-------------------------------|--------------------|------------------|-----------------|-------------------------------|--------------------|---------------------------------|-----------|
| 100 cP | 423912 | 21.7 | 101 | 199.5 | 100.76 | ±1.50 | -0.24 | 101.5 | 101.5 | ±1.50 | 0.50 | 68 | 101.99 | ±1.50 | 0.99 | 34 | 102.01 | ±1.50 | 1.01 | Pass |
| 50 cP | 228501 | 21.6 | 51.4 | 101.5 | 51.26 | ±1.50 | -0.14 | 51.5 | 51.5 | ±1.50 | 0.10 | 34.5 | 51.75 | ±1.50 | 0.35 | 17.5 | 52.51 | ±1.50 | 1.11 | Pass |

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

Calibration Result Pass

Technician: Magdy Beshay

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

Reviewed By: Samantha Korenek

Calibration Date: 2/19/2025

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

Review Date: 2/27/2025

Calibration Due Date*: 2/19/2026

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.

Calibration Fluid Activation Date: 100 cP 2/19/2025 50 cP 2/19/2025
 (Activation Date should not exceed 30 days of the calibration date)

List all repairs made prior to AS LEFT measurements.

Technician changed bob shaft bearings, main shaft bearings, retainer ring, torsion shaft, rotor, shield, bob, and switch plate. Cleaned and calibrated unit.

| For internal use only. | |
|--|--|
| All master instruments and fluids are calibrated and/or certified to standards which are traceable to NIST. <input type="checkbox"/> Instrument Certificates of Calibration attached | |
| Fluid Thermometer: <u>709</u> | Model #: <u>1000-90080-01</u> Calibration Date: <u>1/9/2024</u> Calibration Due: <u>1/9/2026</u> Serial No: <u>240024945</u> |
| Tachometer: <u>678</u> | Model #: <u>R7050</u> Calibration Date: <u>7/22/2024</u> Calibration Due: <u>7/22/2025</u> Serial No: <u>220326760</u> |
| Ambient Monitor: <u>345</u> | Model #: <u>RH300</u> Calibration Date: <u>8/20/2024</u> Calibration Due: <u>8/20/2025</u> Serial No: <u>Z395285</u> |
| Ambient Conditions | |
| Room Temperature: <u>21.6</u> | Relative Humidity: <u>46.1</u> |