



**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: 130-76

Model: Model 900 Viscometer

Serial Number: 514446000001

S/O# or J/O# 229712

Bob B1

Spring F0.2

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	100.1 RPM	200.0 RPM	300.0 RPM	599.8 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	0.1 RPM	0.0 RPM	0.0 RPM	0.2 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 * 0.1010	Accepted Deviation	Actual Deviation**	300 RPM Reading	300 VIS: 300 Reading * 0.2000	Accepted Deviation	Actual Deviation	200 RPM Reading	200 VIS: 200 Reading / 3.3334	Accepted Deviation	Actual Deviation	100 RPM Reading	100 VIS: 100 Reading / 1.6667	Accepted Deviation	Actual Deviation (100 VIS - CV)	Pass/Fail
20 cP	116618	23.8	18.4	180.5	-	-	-	91.5	18.3	±.30	-0.10	61.1	18.33	±.30	-0.07	30.7	18.42	±.30	0.02	Pass
10 cP	23201	24.6	9.3	91.9	-	-	-	46.7	9.34	±.30	0.04	31.6	9.48	±.30	0.18	15.9	9.54	±.30	0.24	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: 11/18/2024

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

Review Date: 11/18/2024

Calibration Due Date\*: 11/18/2025

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: 20 cP 11/18/2024 10 cP 11/18/2024  
 (Activation Date should not exceed 30 days of the calibration date)

List all repairs made prior to AS LEFT measurements.

Technician changed main bearings, bob shaft assembly, bob shaft bearings, and retainer ring. 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.  Instrument Certificates of Calibration attached

Fluid Thermometer: <u>260</u>	Model #: <u>90080-09</u>	Calibration Date: <u>1/29/2024</u>	Calibration Due: <u>1/29/2025</u>	Serial No: <u>192283369</u>
Tachometer: <u>708</u>	Model #: <u>R7050</u>	Calibration Date: <u>1/30/2024</u>	Calibration Due: <u>1/30/2025</u>	Serial No: <u>230832873</u>
Ambient Monitor: <u>261</u>	Model #: <u>EA20</u>	Calibration Date: <u>1/16/2024</u>	Calibration Due: <u>1/16/2025</u>	Serial No: <u>Z375174</u>
<b>Ambient Conditions</b>				
Room Temperature: <u>74.1</u>	Relative Humidity: <u>60</u>			