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: 130-60-99 **Model:** 6-Speed Viscometer, Reconditioned **Serial Number:** 1987 **S/O# or J/O#**

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	100.1 RPM	199.8 RPM	299.9 RPM	600.3 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	0.2 RPM	0.1 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 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	24.7	95	189	95.45	±1.50	0.45	95.5	95.5	±1.50	0.50	64	95.99	±1.50	0.99	32	96.01	±1.50	1.01	Pass
50 cP	228501	24.4	48.5	96	48.48	±1.50	-0.02	48.5	48.5	±1.50	0.00	32.5	48.75	±1.50	0.25	16	48.00	±1.50	-0.50	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%

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.

Reviewed By: Samantha Korenek

Calibration Date: 3/17/2025

Review Date: 3/27/2025

Calibration Due Date*: 3/17/2026

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 measuremnents.

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:	709	**Model #:**	1000-90080-0	**Calibration Date:**	1/9/2024	**Calibration Due:**	1/9/2026	**Serial No:** 240024945
Tachometer:	708	**Model #:**	R7050	**Calibration Date:**	2/6/2025	**Calibration Due:**	2/6/2026	**Serial No:** 230832873
Ambient Monitor:	345	**Model #:**	RH300	**Calibration Date:**	8/20/2024	**Calibration Due:**	8/20/2025	**Serial No:** Z395285

Ambient Conditions

Room Temperature: 24.1 **Relative Humidity:** 46.5

Revised 4/4/2023