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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

Part Number: 130-10-S Model: Model 800 Viscometer, Stability Motor Serial Number: 537743000006 S/O# or J/O# New
 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	100.0 RPM	200.0 RPM	300.0 RPM	600.0 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	0.0 RPM	0.0 RPM	0.0 RPM	0.0 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	309602	24.5	98.6	195	98.48	±1.50	-0.12	99	99	±1.50	0.40	66.5	99.74	±1.50	1.14	33	99.01	±1.50	0.41	Pass
50 cP	228501	24.3	48.6	95.5	48.23	±1.50	-0.37	49	49	±1.50	0.40	33	49.50	±1.50	0.90	16.5	49.50	±1.50	0.90	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: Emad Hanna
 Calibration Date: 12/18/2024
 Calibration Due Date*: 12/18/2025

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
 Review Date: 12/19/2024

Calibration Fluid Activation Date: 100 cP 12/18/2024 50 cP 12/18/2024
 (Activation Date should not exceed 30 days of the calibration date)

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>704</u>	Model #: <u>1000,90080-05</u>	Calibration Date: <u>5/8/2024</u>	Calibration Due: <u>5/8/2025</u>	Serial No: <u>221540132</u>
Tachometer: <u>155</u>	Model #: <u>4060</u>	Calibration Date: <u>7/22/2024</u>	Calibration Due: <u>7/22/2025</u>	Serial No: <u>122574032</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: 72 Relative Humidity: 48.5