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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: 130-76-C Model: Model 900 Viscometer, Complete, 115 Volt Serial Number: 5374500000005 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	23	101.7	203.2	102.62	±1.50	0.92	101.7	101.7	±1.50	0.00	68.1	102.14	±1.50	0.44	34.3	102.91	±1.50	1.21	Pass
50 cP	228501	22.4	50.6	99.7	50.35	±1.50	-0.25	50.5	50.5	±1.50	-0.10	34.3	51.45	±1.50	0.85	17.1	51.31	±1.50	0.71	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
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Technician: Emad Hanna Factory Recommendations*: Factory recalibration is recommended annually. Uncertainty: 0.5% Reviewed By: Therese Ikladious
 Calibration Date: 2/3/2025 Calibration requirements are determined per customer's Quality Management System. Review Date: 2/3/2025
 Calibration Due Date*: 2/3/2026 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 2/3/2025 50 cP 2/3/2025
 (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>4000,90080-05</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>2395285</u>

Ambient Conditions
 Room Temperature: 72 Relative Humidity: 48