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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

Model: 6-Speed Viscometer

Serial Number: 3051

S/O# or J/O# 22190

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	99.3 RPM	200.1 RPM	300.1 RPM	600.4 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	0.7 RPM	0.1 RPM	0.1 RPM	0.4 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	23.9	99.8	197	99.49	±1.50	-0.31	99.5	99.5	±1.50	-0.30	66	98.99	±1.50	-0.81	33	99.01	±1.50	-0.79	Pass
50 cP	228501	23.8	49.1	96	48.48	±1.50	-0.62	49	49	±1.50	-0.10	32.5	48.75	±1.50	-0.35	16	48.00	±1.50	-1.10	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: 10/3/2024

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

Review Date: 10/3/2024

Calibration Due Date*: 10/3/2025

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 9/9/2024 50 cP 9/9/2024

(Activation Date should not exceed 30 days of the calibration date)

List all repairs made prior to AS LEFT measurements.

Technician replaced bob shaft bearings, rear bearing, retainer ring, main shaft bearings, teflon washer, clutch spring, coupling, and shim. 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: 260 Model #: 90080-09 Calibration Date: 1/29/2024 Calibration Due: 1/29/2025 Serial No: 192283369

Tachometer: 708 Model #: R7050 Calibration Date: 1/30/2024 Calibration Due: 1/30/2025 Serial No: 230832873

Ambient Monitor: 261 Model #: EA20 Calibration Date: 1/16/2024 Calibration Due: 1/16/2025 Serial No: Z375174

Ambient Conditions

Room Temperature: 74.7 Relative Humidity: 53.5