



## OFITE 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

|                          |                            |
|--------------------------|----------------------------|
| Order Number:            | 22849                      |
| Serial # / Local I.D. #: | 10102835                   |
| Calibration Date:        | 8/6/2025                   |
| *Recommended Due Date:   | 8/6/2026                   |
| Certificate Number:      | 1010283545875              |
| Part Number:             | 130-60-12                  |
| Model:                   | 12 Speed Viscometer, 60 Hz |

|                    |                        |
|--------------------|------------------------|
| Condition Found:   | Out of Calibration     |
| Condition Left:    | In Calibration         |
| Repairs Required:  | No                     |
| As Found Required: | Yes (See Report Below) |
| Bob:               | B1                     |
| Spring:            | F1                     |

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| TESTING CONDITION AND CALIBRATION FLUIDS INFORMATION                |                        |                 |                              |                     |                 |                              |
|---|------------------------|-----------------|------------------------------|---------------------|-----------------|------------------------------|
| Ambient Conditions  | Lab / Room Temperature | °F              | °C                           | Lab / Room Humidity |                 | 51.1 %                       |
|   |                        | 76.0 °F         | 24.4 °C                      |                     |                 |                              |
| Calibration Fluid Activation Date and LOT Number                    | 100 cP                 | Activation Date | Calibration Fluid LOT Number | 50 cP               | Activation Date | Calibration Fluid LOT Number |
|   |                        | 7/11/2025       | 423912                       |                     | 7/11/2025       | 228501                       |
| (Activation Date should not exceed 30 days of the calibration date) |                        |                 |                              |                     |                 |                              |

| RPM CHECK         | ± 1 RPM for speeds <100 RPM |            |            | ± 1 % of nominal speed of 100 RPM or Greater |            |            |
|-------------------|-----------------------------|------------|------------|--|------------|------------|
|                   | Speed Setting               | 3.0 RPM    | 6.0 RPM    | 100.0 RPM                                    | 200.0 RPM  | 300.0 RPM  |
| Actual            | 3.0 RPM                     | 6.0 RPM    | 100.2 RPM  | 200.0 RPM                                    | 300.6 RPM  | 600.1 RPM  |
| Allowed Deviation | ± 1.00 RPM                  | ± 1.00 RPM | ± 1.00 RPM | ± 2.00 RPM                                   | ± 3.00 RPM | ± 6.00 RPM |
| Actual Deviation  | 0.0 RPM                     | 0.0 RPM    | 0.2 RPM    | 0.0 RPM                                      | 0.6 RPM    | 0.1 RPM    |
| Pass / Fail       | Pass                        | Pass       | Pass       | Pass   | Pass       | Pass       |

Per API RP 10B-2 Annex B, Equipment Calibration Requirements

| AS FOUND MEASUREMENTS        |                              |                               |                           |                 |                               |                    |                                    |                 |                               |                    |                                 |                 |                               |                    |                                 |                 |                               |                    |                                 |           |
|------------------------------|------------------------------|-------------------------------|---------------------------|-----------------|-------------------------------|--------------------|------------------------------------|-----------------|-------------------------------|--------------------|---------------------------------|-----------------|-------------------------------|--------------------|---------------------------------|-----------------|-------------------------------|--------------------|---------------------------------|-----------|
| Calibration Fluid Viscosity  | Calibration Fluid LOT Number | Calibration Fluid Temperature | Calibrated Viscosity (CV) | 600 RPM Reading | 600 VIS: 600 Reading * 0.5050 | Accepted Deviation | Actual Deviation ** (600 VIS - CV) | 300 RPM Reading | 300 VIS: 300 Reading * 1.0000 | Accepted Deviation | Actual Deviation (300 VIS - CV) | 200 RPM Reading | 200 VIS: 200 Reading / 0.6667 | Accepted Deviation | Actual Deviation (200 VIS - CV) | 100 RPM Reading | 100 VIS: 100 Reading / 0.3333 | Accepted Deviation | Actual Deviation (100 VIS - CV) | Pass/Fail |
| 100 cP                       | 0                            | 24.0 °C                       | 96.4                      | 192.0           | 96.97                         | ±1.50              | 0.57                               | 97.0            | 97                            | ±1.50              | 0.60                            | 65.0            | 97.49                         | ±1.50              | 1.09                            | 33.0            | 99.01                         | ±1.50              | 2.61                            | Fail      |
| 50 cP                        | 228501                       | 23.9 °C                       | 49.0                      | 96.5            | 48.74                         | ±1.50              | -0.26                              | 49.5            | 49.5                          | ±1.50              | 0.50                            | 33.0            | 49.50                         | ±1.50              | 0.50                            | 16.0            | 48.00                         | ±1.50              | -1.00                           | Pass      |
| As Found Calibration Results |                              |                               |                           |                 |                               |                    |                                    |                 |                               |                    |                                 |                 |                               |                    |                                 |                 |                               |                    |                                 | Fail      |

| AS LEFT MEASUREMENTS        |                              |                               |                           |                 |                               |                    |                                    |                 |                               |                    |                                 |                 |                               |                    |                                 |                 |                               |                    |                                 |           |
|-----------------------------|------------------------------|-------------------------------|---------------------------|-----------------|-------------------------------|--------------------|------------------------------------|-----------------|-------------------------------|--------------------|---------------------------------|-----------------|-------------------------------|--------------------|---------------------------------|-----------------|-------------------------------|--------------------|---------------------------------|-----------|
| Calibration Fluid Viscosity | Calibration Fluid LOT Number | Calibration Fluid Temperature | Calibrated Viscosity (CV) | 600 RPM Reading | 600 VIS: 600 Reading * 0.5050 | Accepted Deviation | Actual Deviation ** (600 VIS - CV) | 300 RPM Reading | 300 VIS: 300 Reading * 1.0000 | Accepted Deviation | Actual Deviation (300 VIS - CV) | 200 RPM Reading | 200 VIS: 200 Reading / 0.6667 | Accepted Deviation | Actual Deviation (200 VIS - CV) | 100 RPM Reading | 100 VIS: 100 Reading / 0.3333 | Accepted Deviation | Actual Deviation (100 VIS - CV) | Pass/Fail |
| 100 cP                      | 423912                       | 24.3 °C                       | 95.8                      | 189.0           | 95.45                         | ±1.50              | -0.35                              | 95.5            | 95.5                          | ±1.50              | -0.30                           | 64.0            | 95.99                         | ±1.50              | 0.19                            | 32.0            | 96.01                         | ±1.50              | 0.21                            | Pass      |
| 50 cP                       | 228501                       | 24.2 °C                       | 48.7                      | 95.5            | 48.23                         | ±1.50              | -0.47                              | 48.5            | 48.5                          | ±1.50              | -0.20                           | 32.5            | 48.75                         | ±1.50              | 0.05                            | 16.5            | 49.50                         | ±1.50              | 0.80                            | Pass      |
| As Left Calibration Results |                              |                               |                           |                 |                               |                    |                                    |                 |                               |                    |                                 |                 |                               |                    |                                 |                 |                               |                    |                                 | Pass      |

**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.

|                        |           |
|------------------------|-----------|
| Elmer Pumphrey         | 8/6/2025  |
| Calibration Technician | Date      |
| Samantha Korenek       | 8/11/2025 |
| Reviewed By            | Date      |

| CALIBRATION EQUIPMENT         |             |              |               |                    |                  |                      |
|-------------------------------|-------------|--------------|---------------|--------------------|------------------|----------------------|
| Equipment                     | I.D. Number | Model Number | Serial Number | Certificate Number | Calibration Date | Calibration Due Date |
| Fluid Thermometer             | 322         | 4000         | 160917170     | C-50081            | 5/15/2025        | 5/15/2026            |
| Tachometer                    | 679         | R7050        | 220326766     | C-52613            | 7/23/2025        | 7/23/2026            |
|                               | I.D. Number | Model Number | Serial Number | Certificate Number | Calibration Date | Calibration Due Date |
| Ambient Monitor / Thermometer | 169         | EA20         | Z375173       | C-50047            | 5/9/2025         | 5/9/2026             |
|                               | I.D. Number | Model Number | Serial Number | Certificate Number | Calibration Date | Calibration Due Date |

| AS FOUND REPORT   |
|---|
| List all damages which were observed. Describe how this could have affected measurements. |
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