

# CALIBRATION CERTIFICATE

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## CALIBRATION REPORT FOR HYDROMETER

THIS REPORT OF CALIBRATION SHALL DOCUMENT THAT THE INSTRUMENT DESCRIBED HEREIN WAS EXAMINED AND TESTED IN KESSLER'S CALIBRATION LABORATORY AGAINST NIST TRACEABLE REFERENCE STANDARDS, IN ACCORDANCE TO KESSLER'S PROCEDURE H-2008, WHICH IS BASED ON ASTM E-126-13a. THIS CALIBRATION MEETS THE REQUIREMENTS OF ISO/IEC 17025, ANSI/NCL Z2540-1-1994 AND THE ISO 9000 AND QS 9000 SERIES OF QUALITY STANDARDS.

**CUSTOMER INFORMATION:** Sample Company

Purchase Order Number: 8452

Date Calibrated: November XX, 20XX      Next Recommended Due Date or per company's requirement: November XX, 20XX

### INSTRUMENT DESCRIPTION:

Serial No.: 678276

Marked: CHASE-USA ASTM 5H

Catalog No.: 7008-C

Hydrometer Scale: Degrees API @ 60°F

Range: 39/51

Divisions: 0.1

### RESULTS OF PHYSICAL EXAMINATION:

This instrument has been examined under a polarized lens and strains in the glass, if any, were judged to be minimal and of no detriment to the function of this instrument. It has been determined that this instrument is in good working order and therefore suitable for calibration.

The indications of this instrument cannot be adjusted or modified by ordinary means, accordingly, the readings given in the column entitled "Reading of Instrument" below, are in effect, to be both "As Found" and "As Left" readings.

### RESULTS OF CALIBRATION:

TEST POINT	READING	CORRECTION	UNCERTAINTY
40.00 API	39.96 API	+0.04 API	+/-0.0089 API
45.00 API	44.99 API	+0.01 API	+/-0.0089 API
50.00 API	50.02 API	-0.02 API	+/-0.0089 API

A coverage factor of 2 sigma (K=2) has been applied to the standard uncertainty in order to express the expanded uncertainty at approximately a 95% confidence level.

Laboratory Environment Conditions: Temperature: 25°C ± 5°C / Relative Humidity: Between 40% and 60%

The scale reading is determined by the intersection of the horizontal plane, tangent to the bottom of the meniscus, on the stem scale. See ASTM D-1298 for drawings, discussion and instructions on making accurate hydrometer readings.

The above readings and corrections represent at least three independent observations of the subject hydrometer and at least four observations of the reference standard. The readings were resolved to the nearest one tenth of one scale division.

### TRACEABILITY INFORMATION:

Hydrometer NIST Primary Standard: 753335

Transfer Standard(s): 226863-753356-678339

Calibration Performed By: Thomas Redding

Approved By:   
James Stone

Calibration Report Prepared By: RP

Report No.: 112415-10