

## Soot Content Standard

Analyte: Particulate Carbon

Product No: VHG-SOOT-A-50

Certified Concentration: 1.2 wt%

Matrix: 15W40 Diesel Engine Oil

Lot No: 977853-2

**Intended Use:** This reference or calibration standard is intended for use in the determination of soot in diesel engine oil by Infrared Spectroscopy, Thermal Gravimetric Analysis (TGA), or other techniques. It can be used in accordance with ASTM D5967 (Appendix A4), ASTM D7686, and ASTM D7844. It must be well shaken prior to use.

**Certification:** VHG standards are manufactured and certified under a quality control system that is accredited to both **ISO 9001** and **ISO/IEC 17025**. This standard was prepared to the nominal concentration using gravimetric methods. The certified concentration was determined by Thermal Gravimetric Analysis (TGA) according to ASTM D5967, Appendix A4. The uncertainty associated with the certified concentration is  $\pm 1\%$  relative, which is the relative error associated with the analytical method.

**Tools:** The balances used in the preparation of VHG standards are calibrated regularly with traceability to NIST.

**Recommendations:** This product has metal ball bearings in the container to aid in mixing. Shake thoroughly for 60 seconds prior to use and perform testing as promptly as possible! VHG guarantees the accuracy of this solution for **24 Months** from the certification date shown below, provided it is kept tightly capped and stored under normal laboratory conditions. Never pour used standard back into original bottle.

VHG Labs, Inc.



Q.A. Manager

See Exp. Date on Container  
**Certification Date**

VHG Labs, Inc. waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.