

Standard Practice for Manual Sampling of Petroleum and Petroleum Products¹

This standard is issued under the fixed designation D4057; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This practice covers procedures for manually obtaining representative samples of petroleum products of a liquid, semi-liquid, or solid state whose vapor pressure at ambient conditions is below 101 kPa (14.7 psia). If sampling is for the precise determination of volatility, use Practice D5842 (API MPMS Chapter 8.4) in conjunction with this practice. For sample mixing and handling of samples, refer to Practice D5854 (API MPMS Chapter 8.3). The practice does not cover sampling of electrical insulating oils and hydraulic fluids.

Note 1—The procedures described in this practice may also be applicable in sampling most noncorrosive liquid industrial chemicals, provided that all safety precautions specific to these chemicals are strictly followed.

Note 2—The procedure for sampling liquefied petroleum gases is described in Practice D1265; the procedure for sampling fluid power hydraulic fluids is covered in ANSI B93.19 and B93.44; the procedure for sampling insulating oils is described in Practice D923; and the procedure for sampling natural gas is described in Test Method D1145.

Note 3—The procedure for special fluid samples for trace metal analysis is described in an appendix to Specification D2880.

2. Referenced Documents

2.1 ASTM Standards²

- D86 Test Method for Distillation of Petroleum Products at Atmospheric Pressure
- D217 Test Methods for Cone Penetration of Lubricating Grease
- D244 Test Methods and Practices for Emulsified Asphalts

D268 Guide for Sampling and Testing Volatile Solvents and Chemical Intermediates for Use in Paint and Related Coatings and Material

D346 Practice for Collection and Preparation of Coke Samples for Laboratory Analysis

D525 Test Method for Oxidation Stability of Gasoline (Induction Period Method)

D673 Test Method for Oxidation Stability of Aviation Fuels (Potential Residue Method)

D923 Practices for Sampling Electrical Insulating Liquids

D977 Specification for Emulsified Asphalt

D1145 Test Method for Sampling Natural Gas

D1265 Practice for Sampling Liquefied Petroleum (LP) Gases, Manual Method

D1856 Test Method for Recovery of Asphalt From Solution by Abson Method

D2172 Test Methods for Quantitative Extraction of Bitumen From Bituminous Paving Mixtures

D2880 Specification for Gas Turbine Fuel Oils

D4177 Practice for Automatic Sampling of Petroleum and Petroleum Products

D4306 Practice for Aviation Fuel Sample Containers for Tests Affected by Trace Contamination

D4865 Guide for Generation and Dissipation of Static Electricity in Petroleum Fuel Systems

D5842 Practice for Sampling and Handling of Fuels for Volatility Measurement

D5854 Practice for Mixing and Handling of Liquid Samples of Petroleum and Petroleum Products

2.2 American National Standards³

B93.19 Standard Method for Extraction Fluid Samples from the Lines of an Operating Hydraulic Fluid Power System (for Particulate Contamination Analysis)

B93.44 Method for Extracting Fluid Samples from the Reservoir of an Operating Hydraulic Fluid Power System

2.3 API Standards⁴

¹ This practice is under the jurisdiction of ASTM Committee D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02.02.08, the joint ASTM-API committee on Sampling (API MPMS Chapter 8.0). This test method has been approved by the sponsoring committees and accepted by the Cooperating Societies in accordance with established procedures. This test method was issued as a joint ASTM-API standard in 1991.

Current edition approved June 1, 2011. Published August 2011. Originally approved in 1991. Last previous edition approved in 2006 as D4057-06. DOI: 10.1520/D4057-11.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www-ansinc.org>.

⁴ Available from American Petroleum Institute (API), 1229 L St., NW, Washington, DC 20005-4070, <http://www.api.org>.

Standard Practice For Manual Sampling

Michael Hoelscher



Standard Practice For Manual Sampling:

Standard Practice for Manual Sampling of Petroleum and Petroleum Products, 2013 **Manual on Hydrocarbon Analysis**, 1977 *Handbook of Coal Analysis* James G. Speight, 2005-05-13 All the guidance needed to test coal and analyze the results With the skyrocketing costs of most fuel sources government industry and consumers are taking a greater interest in coal an abundant and inexpensive alternative which has been made more environmentally friendly through new technology Published in response to this renewed interest Handbook of Coal Analysis provides readers with everything they need to know about testing and analyzing coal Moreover it explains the meaning of test results and how these results can predict coal behavior and its corresponding environmental impact during use The thorough coverage of coal analysis includes Detailed presentation of necessary standard tests and procedures Explanation of coal behavior relative to its usage alongside the corresponding environmental issues Coverage of nomenclature terminology sampling and accuracy and precision of analysis Step by step test method protocols for proximate analysis ultimate analysis mineral matter physical and electrical properties thermal properties mechanical properties spectroscopic properties and solvent properties Emphasis on relevant American Society for Testing and Materials ASTM standards and test methods including corresponding International Organization for Standardization ISO and British Standards Institution BSI test method numbers To assist readers in understanding the material a glossary of terms is provided Each term is defined in straightforward language that enables readers to better grasp complex concepts and theory References at the end of each chapter lead readers to more in depth discussions of specialized topics This is an essential reference for analytical chemists process chemists and engineers in the coal industry as well as other professionals and researchers who are looking to coal as a means to decrease dependence on foreign oil sources and devise more efficient cleaner methods of energy production *Manual of Petroleum Measurement Standards*, 2019 *Code of Federal Regulations*, 2013 Special edition of the Federal Register containing a codification of documents of general applicability and future effect as of July 1 with ancillaries **Federal Register**, 2013-05 Code of Federal Regulations, Title 40, Protection of Environment, PT. 72-80, Revised as of July 1, 2010, 2010-10-29 **Code of Federal Regulations, Title 40, Protection of Environment, Pt. 72-80, Revised as of July 1, 2011** U. s. Government Printing Office, 2011-10-25 2017 CFR Annual Print Title 40 Protection of Environment - Parts 72 to 79 Office of The Federal Register, 2017-07-01 **2018 CFR Annual Print Title 40 Protection of Environment - Parts 72 to 79** Office of The Federal Register, 2018-07-01 Volume 18 Parts 72 79 Cover *2017 CFR Annual Print Title 40 Protection of Environment - Part 60 (60.1 to 60.499* Office of The Federal Register, 2017-07-01 *Code of Federal Regulations, Title 40, Protection of Environment, PT. 60, Section 60.1 to End of PT. 60, Revised as of July 1, 2010*, 2010-09-28 **Code of Federal Regulations, Title 40, Protection of Environment, Pt. 60, Revised as of July 1, 2011** U. s. Government Printing Office, 2011-11-21 *The Code of Federal Regulations of the United States of America*, 2005 The Code of Federal

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Manual of Petroleum Measurement Standards American Petroleum Institute. Measurement Coordination Department,1995

Title 40 Protection of Environment Part 60 (§ 60.1 to end of part 60 sections) (Revised as of July 1, 2013) Office of The Federal Register, Enhanced by IntraWEB, LLC,2014-07-01 40 CFR Protection of Environment

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