

ASTM Volume 05.03, March 2025

D6821-20a Standard Test Method for Low Temperature Viscosity of Drive Line Lubricants in a Constant Shear Stress Viscometer

D7342-20 Standard Test Method for Prolonged Worked Stability of Lubricating Grease in Presence of Water (Water Stability Test)

D6729-20 Standard Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 100 Metre Capillary High Resolution Gas Chromatography

D6743-20 Standard Test Method for Thermal Stability of Organic Heat Transfer Fluids

D6616-21 Standard Test Method for Measuring Viscosity at High Shear Rate by Tapered Bearing Simulator Viscometer at 100 °C

D7397-21 Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels (Miniaturized Optical Method)

D6617-21 Standard Practice for Laboratory Bias Detection Using Single Test Result from Standard Material

D6549-06(2021) Standard Test Method for Determination of Cooling Characteristics of Quenchants by Cooling Curve Analysis with Agitation (Drayton Unit)

D7110-21 Standard Test Method for Determining the Viscosity-Temperature Relationship of Used and Soot-Containing Engine Oils at Low Temperatures

D6728-16(2021) Standard Test Method for Determination of Contaminants in Gas Turbine and Diesel Engine Fuel by Rotating Disc Electrode Atomic Emission Spectrometry

D7041-16(2021) Standard Test Method for Determination of Total Sulfur in Liquid Hydrocarbons and Hydrocarbon-Oxygenate Blends by Gas Chromatography with Flame Photometric Detection

D7111-16(2021) Standard Test Method for Determination of Trace Elements in Middle Distillate Fuels by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)

D7236-16a(2021) Standard Test Method for Flash Point by Small Scale Closed Cup Tester (Ramp Method)

D7372-21 Standard Guide for Analysis and Interpretation of Proficiency Test Program Results

D6591-19 Standard Test Method for Determination of Aromatic Hydrocarbon Types in Middle Distillates—High Performance Liquid Chromatography Method with Refractive Index Detection

D6667-21 Standard Test Method for Determination of Total Volatile Sulfur in Gaseous Hydrocarbons and Liquefied Petroleum Gases by Ultraviolet Fluorescence

D7318-19e1 Standard Test Method for Existent Inorganic Sulfate in Ethanol by Potentiometric Titration

D7155-20 Standard Practice for Evaluating Compatibility of Mixtures of Turbine Lubricating Oils

D6839-21a Standard Test Method for Hydrocarbon Types, Oxygenated Compounds, Benzene, and Toluene in Spark Ignition Engine Fuels by Multidimensional Gas Chromatography

D7096-19 Standard Test Method for Determination of the Boiling Range Distribution of Gasoline by Wide-Bore Capillary Gas Chromatography

D7346-15(2021) Standard Test Method for No Flow Point and Pour Point of Petroleum Products and Liquid Fuels

D6550-20 Standard Test Method for Determination of Olefin Content of Gasolines by Supercritical-Fluid Chromatography

D7171-20 Standard Test Method for Hydrogen Content of Middle Distillate Petroleum Products by Low-Resolution Pulsed Nuclear Magnetic Resonance Spectroscopy

D7279-20 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids by Automated Houillon Viscometer

D6470-99(2020) Standard Test Method for Salt in Crude Oils (Potentiometric Method)

D7040-04(2020) Standard Test Method for Determination of Low Levels of Phosphorus in ILSAC GF 4 and Similar Grade Engine Oils by Inductively Coupled Plasma Atomic Emission Spectrometry

D6756-17 Standard Test Method for Determination of the Red Dye Concentration and Estimation of the ASTM Color of Diesel Fuel and Heating Oil Using a Portable Visible Spectrophotometer

D6666-20 Standard Guide for Evaluation of Aqueous Polymer Quenchants

D6514-03(2019)e1 Standard Test Method for High Temperature Universal Oxidation Test for Turbine Oils

D6896-20a Standard Test Method for Determination of Yield Stress and Apparent Viscosity of Used Engine Oils at Low Temperature

D6812-04a(2019) Standard Practice for Ground-Based Octane Rating Procedures for Turbocharged/Supercharged Spark Ignition Aircraft Engines

D7060-20 Standard Test Method for Determination of the Maximum Flocculation Ratio and Peptizing Power in Residual and Heavy Fuel Oils (Optical Detection Method)

D7260-20 Standard Practice for Optimization, Calibration, and Validation of Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Elemental Analysis of Petroleum Products and Lubricants

D6974-20 Standard Practice for Enumeration of Viable Bacteria and Fungi in Liquid Fuels—Filtration and Culture Procedures

D7097-19 Standard Test Method for Determination of Moderately High Temperature Piston Deposits by Thermo-Oxidation Engine Oil Simulation Test—TEOST MHT

D6922-13(2018) Standard Test Method for Determination of Homogeneity and Miscibility in Automotive Engine Oils

D7058-19 Standard Test Method for Determination of the Red Dye Concentration and Estimation of Saybolt Color of Aviation Turbine Fuels and Kerosine Using a Portable Visible Spectrophotometer

D6892-03(2020) Standard Test Method for Pour Point of Petroleum Products (Robotic Tilt Method)

D6732-04(2020) Standard Test Method for Determination of Copper in Jet Fuels by Graphite Furnace Atomic Absorption Spectrometry

D7344-17a Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure (Mini Method)

D7343-20 Standard Practice for Optimization, Sample Handling, Calibration, and Validation of X-ray Fluorescence Spectrometry Methods for Elemental Analysis of Petroleum Products and Lubricants

D6624-20 Standard Practice for Determining a Flow-Proportioned Average Property Value (FPAPV) for a Collected Batch of Process Stream Material Using Stream Analyzer Data

D7280-20 Standard Test Method for Quinoline-Insoluble (QI) Content of Tar and Pitch by Stainless Steel Crucible Filtration

D6596-00(2021) Standard Practice for Ampulization and Storage of Gasoline and Related Hydrocarbon Materials

D7321-21 Standard Test Method for Particulate Contamination of Biodiesel B100 Blend Stock Biodiesel Esters and Biodiesel Blends by Laboratory Filtration

D7154-15(2021)e1 Standard Test Method for Freezing Point of Aviation Fuels (Automatic Fiber Optical Method)

D7098-21 Standard Test Method for Oxidation Stability of Lubricants by Thin-Film Oxygen Uptake (TFOUT) Catalyst B

D6895-21 Standard Test Method for Rotational Viscosity of Heavy Duty Diesel Drain Oils at 100 °C

D7042-21a Standard Test Method for Dynamic Viscosity and Density of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity)

D7059-21 Standard Test Method for Determination of Methanol in Crude Oils by Multidimensional Gas Chromatography

D7235-21a Standard Guide for Establishing a Linear Correlation Relationship Between Analyzer and Primary Test Method Results Using Relevant ASTM Standard Practices

D7278-21 Standard Guide for Prediction of Analyzer Sample System Lag Times

D6668-21 Standard Test Method for Discrimination Between Flammability Ratings of F = 0 and F = 1

D6584-21 Standard Test Method for Determination of Total Monoglycerides, Total Diglycerides, Total Triglycerides, and Free and Total Glycerin in B-100 Biodiesel Methyl Esters by Gas Chromatography

D6482-21 Standard Test Method for Determination of Cooling Characteristics of Aqueous Polymer Quenchants by Cooling Curve Analysis with Agitation (Tensi Method)

D6710-21 Standard Guide for Evaluation of Hydrocarbon-Based Quench Oil

D6731-22 Standard Test Method for Determining the Aerobic, Aquatic Biodegradability of Lubricants or Lubricant Components in a Closed Respirometer

D6791-22 Standard Test Method for Determination of Grain Stability of Calcined Petroleum Coke

D6594-20e1 Standard Test Method for Evaluation of Corrosiveness of Diesel Engine Oil at 135 °C

D6794-20e1 Standard Test Method for Measuring the Effect on Filterability of Engine Oils After Treatment with Various Amounts of Water and a Long (6 h) Heating Time

D6593-18e1 Standard Test Method for Evaluation of Automotive Engine Oils for Inhibition of Deposit Formation in a Spark-Ignition Internal Combustion Engine Fueled with Gasoline and Operated Under Low-Temperature, Light-Duty Conditions

D6795-19ae1 Standard Test Method for Measuring the Effect on Filterability of Engine Oils After Treatment with Water and Dry Ice and a Short (30 min) Heating Time

D6984-18e1 Standard Test Method for Evaluation of Automotive Engine Oils in the Sequence IIIF, Spark-Ignition Engine

D7320-18e1 Standard Test Method for Evaluation of Automotive Engine Oils in the Sequence IIIG, Spark-Ignition Engine

D6849-22 Standard Practice for Storage and Use of Liquefied Petroleum Gases (LPG) in Sample Cylinders for LPG Test Methods

D6559-22 Standard Test Method for Determination of Thermogravimetric (TGA) Air Reactivity of Baked Carbon Anodes and Cathode Blocks

D6558-22 Standard Test Method for Determination of TGA CO₂ Reactivity of Baked Carbon Anodes and Cathode Blocks

D6560-22 Standard Test Method for Determination of Asphaltenes (Heptane Insolubles) in Crude Petroleum and Petroleum Products

D6810-22 Standard Test Method for Measurement of Hindered Phenolic Antioxidant Content in Non-Zinc Turbine Oils by Linear Sweep Voltammetry

D7371-14(2022) Standard Test Method for Determination of Biodiesel (Fatty Acid Methyl Esters) Content in Diesel Fuel Oil Using Mid Infrared Spectroscopy (FTIR-ATR-PLS Method)

D6615-22 Standard Specification for Jet B Wide-Cut Aviation Turbine Fuel

D7261-22 Standard Test Method for Determining Water Separation Characteristics of Diesel Fuels by Portable Separometer

D6595-22 Standard Test Method for Determination of Wear Metals and Contaminants in Used Lubricating Oils or Used Hydraulic Fluids by Rotating Disc Electrode Atomic Emission Spectrometry

D7319-22 Standard Test Method for Determination of Existent and Potential Sulfate and Inorganic Chloride in Fuel Ethanol and Butanol by Direct Injection Suppressed Ion Chromatography

D7215-22 Standard Test Method for Calculated Flash Point from Simulated Distillation Analysis of Distillate Fuels

D6971-22 Standard Test Method for Measurement of Hindered Phenolic and Aromatic Amine Antioxidant Content in Non-zinc Turbine Oils by Linear Sweep Voltammetry

D6730-22 Standard Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 100-Metre Capillary (with Precolumn) High-Resolution Gas Chromatography

D7220-22 Standard Test Method for Sulfur in Automotive, Heating, and Jet Fuels by Monochromatic Energy Dispersive X-ray Fluorescence Spectrometry

D7153-22ae1 Standard Test Method for Freezing Point of Aviation Fuels (Automatic Laser Method)

D6748-22 Standard Test Method for Determination of Potential Instability of Middle Distillate Fuels Caused by the Presence of Phenalenes and Phenalenones (Rapid Method by Portable Spectrophotometer)

D7109-22e1 Standard Test Method for Shear Stability of Polymer-Containing Fluids Using a European Diesel Injector Apparatus at 30 Cycles and 90 Cycles

D7217-22 Standard Test Method for Determining Extreme Pressure Properties of Solid Bonded Films Using a High-Frequency, Linear-Oscillation (SRV) Test Machine

D7224-23 Standard Test Method for Determining Water Separation Characteristics of Kerosine-Type Aviation Turbine Fuels Containing Additives by Portable Separometer

D7224-23 Standard Test Method for Determining Water Separation Characteristics of Kerosine-Type Aviation Turbine Fuels Containing Additives by Portable Separometer

D6824-23 Standard Test Method for Determining Filterability of Aviation Turbine Fuel

D7214-23 Standard Test Method for Determination of the Oxidation of Used Lubricants by FT-IR Using Peak Area Increase Calculation

D7157-23 Standard Test Method for Determination of Intrinsic Stability of Asphaltene-Containing Residues, Heavy Fuel Oils, and Crude Oils (n-Heptane Phase Separation; Optical Detection)

D6553-23 Standard Test Method for Coolant Compatibility of Way Lubricants

D7328-23 Standard Test Method for Determination of Existent and Potential Inorganic Sulfate and Total Inorganic Chloride in Fuel Ethanol by Ion Chromatography Using Aqueous Sample Injection

D6891-23 Standard Test Method for Evaluation of Automotive Engine Oils in the Sequence IVA Spark-Ignition Engine

D6618-23 Standard Test Method for Evaluation of Engine Oils in Diesel Four-Stroke Cycle Supercharged 1M-PC Single Cylinder Oil Test Engine

D6923-23 Standard Test Method for Evaluation of Engine Oils in a High Speed, Single-Cylinder Diesel Engine—Caterpillar 1R Test Procedure

D6681-23 Standard Test Method for Evaluation of Engine Oils in a High Speed, Single-Cylinder Diesel Engine—Caterpillar 1P Test Procedure

D6750-23 Standard Test Methods for Evaluation of Engine Oils in a High-Speed, Single-Cylinder Diesel Engine—1K Procedure (0.4 % Fuel Sulfur) and 1N Procedure (0.04 % Fuel Sulfur)

D6969-23 Standard Practice for Preparation of Calcined Petroleum Coke Samples for Analysis

D6546-23 Standard Test Methods for and Suggested Limits for Determining Compatibility of Elastomer Seals for Industrial Hydraulic Fluid Applications

D7303-23 Standard Test Method for Determination of Metals in Lubricating Greases by Inductively Coupled Plasma Atomic Emission Spectrometry

D7169-23 Standard Test Method for Boiling Point Distribution of Samples with Residues Such as Crude Oils and Atmospheric and Vacuum Residues by High Temperature Gas Chromatography

D7095-23 Standard Test Method for Rapid Determination of Corrosiveness to Copper from Petroleum Products Using a Disposable Copper Foil Strip

D7152-23 Standard Practice for Calculating Viscosity of a Blend of Petroleum Products

D7216-23 Standard Test Method for Determining Automotive Engine Oil Compatibility with Typical Seal Elastomers

D7213-23 Standard Test Method for Boiling Range Distribution of Petroleum Distillates in the Boiling Range from 100 °C to 615 °C by Gas Chromatography

D7398-23 Standard Test Method for Boiling Range Distribution of Fatty Acid Methyl Esters (FAME) in the Boiling Range from 100 °C to 615 °C by Gas Chromatography

D6792-23c Standard Practice for Quality Management Systems in Petroleum Products, Liquid Fuels, and Lubricants Testing Laboratories

D6547-23 Standard Test Method for Corrosiveness of Lubricating Fluid to Bimetallic Couple

D7061-23 Standard Test Method for Measuring n-Heptane Induced Phase Separation of Asphaltene-Containing Heavy Fuel Oils as Separability Number by an Optical Scanning Device

D7094-23 Standard Test Method for Flash Point by Modified Continuously Closed Cup (MCCCFP) Tester

D7345-23 Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure (Micro Distillation Method)

D6744-23 Standard Test Method for Determination of the Thermal Conductivity of Anode Carbons by the Guarded Heat Flow Meter Technique

D7156-24 Standard Test Method for Evaluation of Diesel Engine Oils in the T-11 Exhaust Gas Recirculation Diesel Engine

D6708-24 Standard Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material

D6481-24 Standard Test Method for Determination of Phosphorus, Sulfur, Calcium, and Zinc in Lubrication Oils by Energy Dispersive X-ray Fluorescence Spectroscopy

D6709-24 Standard Test Method for Evaluation of Automotive Engine Oils in the Sequence VIII Spark-Ignition Engine (CLR Oil Test Engine)

D6749-24 Standard Test Method for Pour Point of Petroleum Products (Automatic Air Pressure Method)

D6469-24 Standard Guide for Microbial Contamination in Fuels and Fuel Systems

D6751-24 Standard Specification for Biodiesel Fuel Blendstock (B100) for Middle Distillate Fuels

D6823-24 Standard Specification for Commercial Boiler Fuels With Used Lubricating Oils

D6745-24 Standard Test Method for Linear Thermal Expansion of Electrode Carbons

D6973-14(2024) Standard Test Method for Indicating Wear Characteristics of Petroleum Hydraulic Fluids in a High Pressure Constant Volume Vane Pump

D7317-24 Standard Test Method for Coagulated Pentane Insolubles in Used Lubricating Oils by Paper Filtration (LMOA Method)

D7112-24 Standard Test Method for Determining Stability and Compatibility of Heavy Fuel Oils and Crude Oils by Heavy Fuel Oil Stability Analyzer (Optical Detection)

D6822-24 Standard Test Method for Density, Relative Density, and API Gravity of Crude Petroleum and Liquid Petroleum Products by Thermohydrometer Method

D6733-24 Standard Test Method for Determination of Individual Components in Spark Ignition Engine Fuels by 50-Metre Capillary High Resolution Gas Chromatography

D7043-24 Standard Test Method for Indicating Wear Characteristics of Non-Petroleum and Petroleum Hydraulic Fluids in a Constant Volume Vane Pump

D7039-24 Standard Test Method for Sulfur in Gasoline, Diesel Fuel, Jet Fuel, Kerosine, Biodiesel, Biodiesel Blends, and Gasoline-Ethanol Blends by Monochromatic Wavelength Dispersive X-ray Fluorescence Spectrometry

D6970-24 Standard Practice for Collection of Calcined Petroleum Coke Samples for Analysis

D6897-24 Standard Test Method for Vapor Pressure of Liquefied Petroleum Gases (LPG) (Expansion Method)

D7038-24a Standard Test Method for Evaluation of Moisture Corrosion Resistance of Automotive Gear Lubricants