

CONTENTS

		Page
Introduction		1
Explanation of Terms		2
Table I—Test Method Equivalence		3
Table II—Alphanumeric Index of Standards		5
	Analysis	Referenced ASTM Standard
ACID NUMBER		
	Colorimetric Titration—see also Base Number, p. 43	D 974 11
	Potentiometric Titration	D 664 12
	Semi-micro Colorimetric Titration	D 3339 14
	of Used Lube Oils	D 5770 15
ACIDITY		
	of Aviation Turbine Fuels	D 3242 16
	of Distillation Residues	D 1093 17
ACTIVE SULFUR		
	in Cutting Oils	D 1662 18
	in Fuels and Solvents	D 4952 19
ADHESION OF SOLID FILM LUBRICANTS		
		D 2510 20
AIR RELEASE PROPERTIES		
		D 3427 21
ALKYL NITRATE IN DIESEL FUELS		
		D 4046 22
AMYL NITRATE IN DIESEL FUELS		
		D 1839 23
ANILINE POINT		
		D 611 24
APPARENT VISCOSITY		
	Borderline Pumping Temperature of Engine Oils—see Borderline Pumping Temperature, p. 55	D 3829
	by Capillary Viscometer at High Temperature High Shear	D 4624 25
	HTHS by Tapered Bearing Simulator	D 4683 25
	HTHS by Tapered Plus Viscometer	D 4741 26
	Cold Cranking Simulator	D 5293 27
	at High Temperature High Shear by Multicell Capillary Viscometer	D 5481 28
	of Lubricating Greases	D 1092 29
	and Yield Stress at Low Temperatures	D 4684 30
AROMATICS		
	in Diesel and Aviation Turbine Fuels by Super Fluid Chromatography	D 5186 31
	in Finished Gasoline by Gas Chromatography	D 4420 32

in Finished Gasoline by Gas Chromatography	D 5580	33
in Finished Gasoline by Gas Chromatography—Fourier Transform Infrared Spectroscopy	D 5986	34
in Finished Gasoline by Gas Chromatography—Mass Spectrometry	D 5769	35
of Hydrocarbon Oils by High Resolution Nuclear Magnetic Resonance	D 5292	36
ASH		
in Coal Tar and Pitch	D 2415	37
in Petroleum Coke	D 4422	38
from Petroleum Products	D 482	39
Sulfated	D 874	40
BASE NUMBER		
by Color Indicator Titration	D 974	43
by Color Indicator Titration, in Lubricants	D 5984	44
by Potentiometric Perchloric Acid Titration	D 2896	45
by Potentiometric HCl Titration	D 4739	46
BENZENE/TOLUENE		
in Gasoline by Gas Chromatography	D 3606	47
in Gasoline by Infrared Spectroscopy	D 4053	48
in Finished Gasoline by Gas Chromatography—see Aromatics, p. 33	D 5580	
in Finished Gasoline by Gas Chromatography—Mass Spectroscopy—see Aromatics, p. 35	D 5769	
in Engine Fuels Using Mid-Infrared Spectroscopy	D 6277	49
BLOCKING AND PICKING POINTS OF PETROLEUM WAX		
	D 1465	50
BOILING RANGE DISTRIBUTION		
of Crude Petroleum by Gas Chromatography	D 5307	51
of Gasoline Fractions by Gas Chromatography	D 3710	52
of Petroleum Distillates by Gas Chromatography	D 6352	54
of Petroleum Fractions by Gas Chromatography—see Carbon Number, p. 59	D 2887	
BORDERLINE PUMPING TEMPERATURE		
	D 3829	55
BROMINE NUMBER		
by Electrometric Titration	D 1159	56
by Electrometric Titration	D 2710	57
BURNING QUALITY OF KEROSENE		
	D 187	58
CARBON-HYDROGEN-NITROGEN DETERMINATION—see Nitrogen Determination, p. 239		
	D 5291	
CARBON NUMBER DISTRIBUTION		
	D 2887	59
CARBON RESIDUE		
	D 4530	60
CARBONIZABLE SUBSTANCES		
in Paraffin Wax	D 612	61
in White Mineral Oil	D 565	62

CHLORINE		
Bomb Method	D 808	63
Field Test Kit Method	D 5384	64
Organic	D 4929	65
by X-Ray Fluorescence in Additives—see Metal Analysis, p. 227	D 6443	
CLOUD POINT		
Auto: Optical Detection Stepped Cooling Method	D 5771	66
Auto: Linear Cooling Rate Method	D 5772	66
Auto: Constant Cooling Rate Method	D 5773	66
Manual of Petroleum Products	D 2500	67
COEFFICIENT OF FRICTION OF LUBRICANTS	D 5183	68
COEFFICIENT OF FRICTION OF LUBRICANTS	D 5707	69
COKING VALUE	D 4715	70
COLD CRANKING SIMULATOR		
Manual Method	D 2602	71
Automatic Method—see Apparent Viscosity, p. 27	D 5293	
COLD FILTER PLUGGING POINT	D 6371	72
COLOR		
ASTM Color	D 1500	73
Dyed Aviation Gasoline	D 2392	75
Gardner	D 1544	76
Platinum Cobalt	D 1209	77
Saybolt	D 156	78
Tristimulus Method	D 6045	79
CONE PENETRATION		
of Lubricating Grease	D 217	80
of Lubricating Grease	D 1403	81
of Petrolatum	D 937	82
CONGEALING POINT	D 938	83
CONRADSON CARBON RESIDUE		
of Petroleum Products	D 189	84
of Tar and Pitch	D 2416	86
COPPER CORROSION		
by Copper Strip Tarnish	D 130	87
by Copper Strip Tarnish	D 849	88
from Lubricating Grease	D 4048	89
of Solid Film Lubricants	D 2649	90
CORROSION PREVENTIVE PROPERTIES		
of Hydraulic Oils	D 4636	91
of Lubricating Greases	D 1743	92
DEMULSIBILITY	D 2711	93
DENSITY AND RELATIVE DENSITY		
of Calcined Petroleum Coke	D 2638	94
Vibrated Bulk Density of Calcined Petroleum Coke	D 4292	95
Real Density of Calcined Petroleum Coke	D 5004	96
of Crude Oils by Digital Analyzer	D 5002	97

by Digital Density Meter	D 4052	98
of Light Hydrocarbons by Pressure Thermohydrometer	D 1657	99
of Liquids by Bingham Pycnometer	D 1217	100
of Petroleum by Hydrometer	D 1298	101
of Solid Pitch	D 2320	102
of Solid Pitch	D 4892	103
of Solid Pitch and Asphalt	D 71	104
of Viscous Materials by Bingham Pycnometer	D 1480	105
of Viscous Materials by Lipkin Pycnometer	D 1481	106
DEPENTANIZATION OF GASOLINE	D 2001	107
DIESEL FUEL DILUENT	D 3524	108
DISTILLATION		
of Crude Petroleum	D 2892	110
of Heavy Hydrocarbon Mixtures	D 5236	111
of Petroleum Products	D 86	112
of Petroleum Products at Reduced Pressure	D 1160	114
of Pitch	D 2569	116
DOCTOR TEST—see Active Sulfur p. 19	D 4952	
DROPPING POINT		
of Lubricating Grease	D 566	118
of Lubricating Grease	D 2265	119
DUST CONTROL MATERIAL	D 4930	120
ELECTRICAL CONDUCTIVITY		
of Aviation and Distillate Fuels	D 2624	121
of Liquid Hydrocarbons by Precision Meter	D 4308	122
ENGINE OIL VOLATILITY BY CAPILLARY GAS CHROMATOGRAPHY		
	D 6417	123
ETHANOL BY GAS CHROMATOGRAPHY	D 5501	124
ETHYLENE GLYCOL	D 4291	125
EVAPORATION LOSSES		
of Engine Oils by Gas Chromatography	D 5480	126
of Lubricating Grease	D 2595	127
of Lubricating Grease and Oils	D 972	128
of Lubricating Oils by Noack Method	D 5800	129
of Lubricating Oils by Thermo Gravimetric Analysis Noack Method	D 6375	130
EXPLOSIVE REACTIVITY OF LUBRICANTS	D 3115	131
EXTREME PRESSURE PROPERTIES		
of Fluid Lubricants	D 3233	132
of Lubricating Fluids by Timken Method	D 2782	133
of Lubricating Fluids by Four Ball Method	D 2783	134
of Lubricating Greases by Four Ball Method	D 2596	135
of Lubricating Greases using a High Frequency Linear Oscillation Method	D 5706	136
EXTRACTABLES	D 3235	137
FILTER PLUGGING TENDENCY	D 2068	138
FILTERABILITY OF DIESEL FUELS	D 4539	139
FILTERABILITY OF DISTILLATE FUEL OILS	D 6426	140

FUEL INJECTOR SHEAR STABILITY TEST OF POLYMER CONTAINING FLUIDS	D 5275	141
FLASH POINT		
Continuous Closed Cup Tester	D 6450	143
Cleveland Open Cup	D 92	144
Pensky Martens Closed Cup	D 93	145
Small Scale Closed Tester	D 3828	146
Tag Closed Tester	D 56	147
FOAMING TENDENCY		
in Aqueous Media, Blender Test	D 3519	148
in Aqueous Media, Bottle Test	D 3601	148
of Lubricating Oils	D 892	149
of Lubricating Oils at High Temperature	D 6082	151
FREEZING POINT		
of Aviation Fuels	D 2386	152
of Aviation Fuels, Automatic Optical Method	D 5901	153
of Aviation Fuels, Automatic Phase Titration Method	D 5972	154
of High Purity Hydrocarbons	D 1015	155
FRETTING WEAR PROTECTION	D 4170	156
FRICITION AND WEAR PROPERTIES OF LUBRI- CATING OILS	D 6425	157
GASOLINE DILUENT IN USED ENGINE OILS		
by Distillation	D 322	158
by Gas Chromatography	D 3525	159
GLYCOL ANTIFREEZE IN USED LUBRICATING OILS	D 2982	160
GRAVITY, API	D 287	161
GUM, EXISTENT, BY JET EVAPORATION	D 381	162
HARDGROVE GRINDABILITY INDEX OF PE- TROLEUM COKE	D 5003	163
HEAT OF COMBUSTION		
of Aviation Fuels	D 1405	164
of Aviation Fuels	D 3338	165
of Aviation Fuels	D 4529	166
of Aviation Fuels	D 6446	167
of Burner and Diesel Fuels	D 4868	168
by Differential Mackey Test	D 3523	169
of Liquid Hydrocarbon Fuels by Bomb Calo- rimetry	D 240	170
of Liquid Hydrocarbon Fuels by Bomb Calo- rimeter	D 4809	171
of Petroleum Distillate Fuels	D 2890	172
by Thermal Analysis, of Aircraft Turbine Fuels	D 4816	173
HYDROCARBON TYPES		
by Clay-Gel Absorption Chromatography	D 2007	175
by Emulsion Chromatography	D 2549	176
by Fluorescent Indicator Adsorption	D 1319	177
by Gas Chromatography	D 2427	178
by Gas Chromatography	D 2505	179

by High Ionizing Voltage Mass Spectrometry	D 2786	180
by High Ionizing Voltage Mass Spectrometry	D 3239	181
by High Performance Liquid Chromatography and Refractive Index Determination	D 6379	182
by Mass Spectrometry	D 2425	183
by Mass Spectrometry	D 2789	184
by Multi-Dimensional Gas Chromatography	D 5443	185
HYDROGEN CONTENT		
of Aviation Fuels	D 3343	186
by Low Resolution Nuclear Magnetic Reso- nance	D 3701	187
by Low Resolution Nuclear Magnetic Reso- nance	D 4808	188
in Petroleum Fractions	D 1018	189
in Petroleum Products—see Nitrogen Determi- nation, p. 239	D 5291	
HYDROLYTIC STABILITY	D 2619	190
HYDROGEN SULFIDE		
in Liquified Petroleum Gases by Lead Acetate Method	D 2420	191
in Residual Fuels	D 6021	192
in Vapor Phase above Residual Fuel Oils	D 5705	193
HYDROPEROXIDE NUMBER	D 6447	194
HYDROXYL NUMBER	D 1957	195
INSOLUBLES BY MEMBRANE FILTRATION	D 4055	196
INSOLUBLES IN USED LUBRICATING OILS	D 893	197
IODINE NUMBER	D 2078	198
LEAD DETERMINATION		
in Gasoline by Atomic Absorption Spectrometry	D 3237	199
in Gasoline by Iodine Chloride Method	D 3341	200
in Gasoline by X-Ray Fluorescence	D 5059	201
by Rapid Field Test	D 3348	202
LEAKAGE TENDENCIES OF GREASES	D 1263	203
LITHIUM-SODIUM IN LUBRICATING GREASES	D 3340	204
LOAD CARRYING CAPACITY OF LUBRICAT- ING GREASES	D 2509	205
LOW TEMPERATURE FLUIDITY AND APPEAR- ANCE	D 6351	206
LUBRICATING GREASES, ANALYSIS	D 128	207
LUBRICITY OF AVIATION TURBINE FUELS	D 5001	208
LUBRICITY OF DIESEL FUELS	D 6079	209
LUMINOMETER NUMBERS	D 1740	210
MANGANESE IN GASOLINE	D 3831	211
MELTING POINT OF PETROLEUM WAX	D 87	212
MELTING POINT OF PETROLEUM WAX DROP	D 127	213
MERCAPTAN SULFUR	D 3227	214
MISTING PROPERTY OF LUBRICATING FLUIDS	D 3705	215

METAL ANALYSIS		
Atomic Absorption Spectroscopy (Gas Turbine Fuels)	D 3605	216
Atomic Absorption Spectroscopy (Lubricating Oils)	D 4628	217
Atomic Absorption Spectroscopy (Aluminum and Silicon)	D 5184	218
Atomic Absorption Spectroscopy (Nickel, Vanadium, Iron, Sodium)	D 5863	219
Inductively Coupled Plasma—Atomic Emission Spectroscopy (Lubricating Oils)	D 4951	220
Inductively Coupled Plasma—Atomic Emission Spectroscopy (Lubricating Oils)	D 5185	221
Inductively Coupled Plasma—Atomic Emission Spectroscopy (Aluminum and Silicon)	D 5184	218
Inductively Coupled Plasma—Atomic Emission Spectroscopy (Nickel, Vanadium, Iron)	D 5708	222
in Coke by Atomic Absorption Spectroscopy	D 5056	223
in Coke by Inductively Coupled Plasma—Atomic Emission Spectroscopy	D 5600	224
in Coke by Wavelength Dispersive X-Ray Fluorescence	D 6376	225
X-Ray Fluorescence, in Additives	D 4927	226
X-Ray Fluorescence, in Additives	D 6443	227
MOLECULAR WEIGHT		
of Lubricating Oils	D 2878	228
by Thermoelectric Measurements	D 2503	229
from Viscosity Measurements	D 2502	230
MOISTURE OF GREEN PETROLEUM COKE	D 4931	231
METHYL TERT-BUTYL ETHER		
by Gas Chromatography	D 5441	232
in Gasoline by Gas Chromatography	D 4815	233
in Gasoline by Gas Chromatography—see Oxygenates, p. 255	D 5599	
in Gasoline by Gas Chromatography—Fourier Transform Infrared Spectroscopy—see Aromatics, p. 34	D 5986	
in Gasoline by Infra Red Spectroscopy	D 5845	234
NAPHTHALENES IN HYDROCARBONS	D 1840	235
NEEDLE PENETRATION OF PETROLEUM WAXES	D 1321	236
NITROGEN DETERMINATION		
Chemiluminescence Detection	D 4629	237
Chemiluminescence Detection with Boat Inlet	D 5762	238
Instrumental	D 5291	239
Kjeldahl	D 3228	240
ODOR OF PETROLEUM WAX	D 1833	241
OIL CONTENT OF PETROLEUM WAX	D 721	242
OLEFINS BY GAS CHROMATOGRAPHY—see Oxygenates, p. 256	D 6293	

OLEFINS BY GAS CHROMATOGRAPHY	D 6296	243
OLEFINS BY FLUORESCENT INDICATOR ABSORPTION—see Hydrogen Types, p. 177	D 1319	
OXIDATION INDUCTION TIME OF GREASES	D 5483	244
OXIDATION STABILITY		
of Aviation Fuels by Potential Residue Method	D 873	245
of Distillation Fuel Oils by Accelerated Method	D 2274	246
of Engine Oils by Thin Film Oxygen Uptake	D 4742	247
of Extreme Pressure Lubricating Oils	D 2893	248
of Gasoline	D 525	249
of Gear Oils by Universal Glassware	D 5763	250
of Inhibited Mineral Oils	D 943	251
of Lubricating Grease by Oxygen Bomb Method	D 942	252
of Oils by Universal Oxidation Test	D 5846	253
OXYGEN, IN GASOLINE AND FUELS	D 5622	254
OXYGENATES		
in Gasoline by Gas Chromatography—see MTBE, p. 233	D 4815	
in Gasolines by Gas Chromatography and Flame Ionization Detector	D 5599	255
in Gasolines by Gas Chromatography and Fourier Transform Infrared Spectroscopy—see Aromatics, p. 34	D 5986	
and O—PONA Determination	D 6293	256
PARTICULATE CONTAMINATION		
in Aviation Fuels by Lab Filtration	D 5452	257
in Aviation Fuels by Line Sampling	D 2276	258
in Middle Distillate Fuels by Lab Filtration	D 6217	259
POLYCHLORINATED BIPHENYLS IN WASTES BY GAS CHROMATOGRAPHY	D 6160	260
PEROXIDE NUMBER		
of Aviation Turbine Fuels	D 3703	261
of Petroleum Wax	D 1832	262
PETROLEUM WAX ANALYSIS BY GAS CHROMATOGRAPHY	D 5442	263
PHOSPHORUS DETERMINATION		
in Gasoline	D 3231	265
in Lubricating Oils and Additives	D 1091	266
in Lubricating Oils and Additives	D 4047	269
POUR POINT		
of Crude Oils	D 5853	270
Manual	D 97	271
by Automatic Pressure Pulsing Method	D 5949	272
by Automatic Tilt Method	D 5950	273
by Auto Rotational Method	D 5985	274
PRECIPITATION NUMBER OF LUBRICATING OILS	D 91	275
PUMPABILITY OF INDUSTRIAL FUEL OILS	D 3245	276
RAMSBOTTOM CARBON RESIDUE	D 524	277

REFRACTIVE INDEX		
of Hydrocarbon Liquids	D 1218	278
of Viscous Materials	D 1747	279
ROLL STABILITY OF LUBRICATING GREASE	D 1831	280
RUST PREVENTING CHARACTERISTICS		
of Inhibited Mineral Oil	D 665	281
of Turbine Oil	D 3603	282
SALTS IN CRUDE OIL	D 3230	283
SAPONIFICATION NUMBER	D 94	284
SEDIMENT TESTS		
in Crude Oils by Extraction Method	D 473	285
in Crude Oils by Membrane Filtration	D 4807	286
in Lubricating Oils, Trace	D 2273	287
in Residual Fuel Oils, Total	D 4870	288
and Water in Crude Oils by Centrifuge Method	D 96	289
and Water in Distillate Fuels by Centrifuge Method	D 2709	290
SONIC SHEAR STABILITY		
by Diesel Injector Nozzler	D 3945	291
by European Diesel Injector	D 6278	292
of Hydraulic Fluid	D 5621	293
of Polymer-Containing Oils	D 2603	294
SLUDGING TENDENCY	D 4310	295
SMOKE POINT	D 1322	296
SOFTENING POINT		
of Asphalt and Pitch	D 3461	298
of Pitches (Cube in Water Method)	D 61	299
of Pitch (Cube in Air Method)	D 2319	300
of Pitch (Mettler Method)	D 3104	301
SOLIDIFICATION POINT OF PETROLEUM WAX	D 3944	302
SOLVENT RED DYE 164 IN DIESEL FUELS	D 6258	303
STABILITY, STORAGE		
of Distillate Fuel at 43°C	D 4625	304
of Distillate Fuels by Oxygen Overpressure	D 5304	305
of Residual Fuels by Spot Test	D 4740	306
of Water in Oil Emulsions	D 3707	307
of Water in Oil Emulsions	D 3709	308
SULFATED ASH—see Ash, p. 40	D 874	
SULFONATES BY LIQUID CHROMATOGRAPHY	D 3712	309
SULFUR DETERMINATION		
Active, in Cutting Oils—see Active Sulfur p. 18	D 1662	
Active, in Fuels and Solvents—see Active Sulfur p. 19	D 4952	
by Bomb Method	D 129	310
by High Temperature Method	D 1552	313
by Hydrogenolysis and Rateometric Colorimetry	D 4045	314
by Lamp Method	D 1266	315

in Liquid Petroleum Gas	D 2784	316
as Mercaptans—see Mercaptan p. 214	D 3227	
by Oxidative Combustion and Electrochemical Detection	D 6428	317
by Oxidative Microcoulometry	D 3120	318
by Oxidative Microcoulometry	D 3246	319
Speciation by Gas Chromatography	D 5623	320
by Ultraviolet Fluorescence Detection	D 5453	321
by X-Ray Spectroscopy, in Petroleum Products	D 2622	322
by X-Ray Spectroscopy, Energy Dispersive, in Petroleum Products	D 4294	323
by X-Ray Spectroscopy, Energy Dispersive, in Gasoline	D 6445	324
by X-Ray Spectroscopy, Wavelength Dispersive, in Gasoline	D 6334	325
THERMAL CONDUCTIVITY OF LIQUIDS	D 2717	326
THERMAL STABILITY		
of Aviation Turbine Fuels	D 3241	327
of Hydraulic Oils	D 2070	328
of Solid Film Lubricants	D 2511	329
of Way Lubricants	D 6203	330
TOLUENE INSOLUBLES IN TAR AND PITCH	D 4072	331
TOLUENE INSOLUBLES IN TAR AND PITCH	D 4312	331
TORQUE, LOW TEMPERATURE		
Ball Bearing Greases	D 1478	332
Wheel Bearings	D 4693	333
TOTAL INHIBITOR CONTENT	D 1157	334
UV ABSORBANCE OF PETROLEUM PRODUCTS	D 2008	335
UNSULFONATED RESIDUE	D 483	336
VANADIUM IN HEAVY FUEL OIL	D 1548	337
VAPOR LIQUID RATIO		
of Engine Fuels	D 2533	338
of Fuels	D 5188	339
VAPOR PRESSURE		
of Crude Oils by VPCR Method	D 6377	340
of Gasoline by Dry Method	D 4953	341
of Lubricating Oils—see Molecular Weight, p. 228	D 2878	
of Petroleum Products by Automatic Method	D 5190	342
of Petroleum Products by Mini Automatic Method	D 5191	343
of Petroleum Products by Mini-Atmospheric Method	D 5482	344
Reid	D 323	345
by Triple Expansion Method	D 6378	346
VISCOSITY, APPARENT		
by Capillary Viscometer at High Temperature High Shear Rates—see Apparent Viscosity, p. 25	D 4624	
by Cold Cranking Simulator—see Apparent Viscosity, p. 27	D 5293	

by Hot Melt Adhesives	D 3236	347
at High Temperature High Shear Rates by Multi-cell Capillary Viscometer—see Apparent Viscosity, p. 28	D 5481	
of Lubricating Greases—see Apparent Viscosity, p. 29	D 1092	
of Petroleum Waxes	D 2669	348
and Yield Stress of Engine Oils—see Apparent Viscosity, p. 30	D 4684	
VISCOSITY, BROOKFIELD	D 2983	349
VISCOSITY, BROOKFIELD, SCANNING	D 5133	350
VISCOSITY AT HIGH TEMPERATURE HIGH SHEAR RATES BY TAPERED BEARING SIMULATOR—see Apparent Viscosity, p. 25	D 4683	
VISCOSITY AT HIGH TEMPERATURE HIGH SHEAR RATES BY TAPERED PLUG SIMULATOR—see Apparent Viscosity, p. 26	D 4741	
VISCOSITY INDEX, CALCULATIONS	D 2270	351
VISCOSITY, KINEMATIC		
of Aircraft Turbine Lubricants	D 2532	352
of Transparent and Opaque Liquids	D 445	353
of Volatile and Reactive Liquids	D 4486	354
VISCOSITY, MINI-ROTARY—see Borderline Pumping Temperature, p. 55	D 3829	
VISCOSITY, SAYBOLT	D 88	354
VISCOSITY, SAYBOLT, CONVERSION FROM KINEMATIC	D 2161	355
VISCOSITY, SHEAR, OF COAL TAR	D 5018	356
VOLATILES		
Contamination Removal from Used Engine Oils	D 3607	357
Matter in Green Petroleum Coke	D 6374	358
Matter in Petroleum Coke	D 4421	359
of Pitch	D 4893	360
WATER		
in Crude Oils by Coulometric Karl Fischer Titration	D 4928	363
in Crude Oils by Distillation	D 4006	364
in Crude Oils by Potentiometric Karl Fischer Titration	D 4377	365
Free, in Distillate Fuels	D 4176	366
Free, in Mid-Distillate Fuels	D 4860	367
in Petroleum Products by Coulometric Karl Fischer Titration	D 6304	368
in Petroleum Products by Distillation	D 95	369
in Petroleum Products by Karl Fischer Reagent	D 1744	370
Reaction of Aviation Fuels	D 1094	371
Resistance to, of Lubricating Grease	D 4049	372
and Sediment by Centrifuge Method—see Sediment, p. 289	D 96	
and Sediment by Centrifuge Method	D 1796	373

and Sediment by Centrifuge Method	D 4007	374
and Sediment in Distillate Fuels by Centrifuge Method—see Sediment, p. 290	D 2709	
Separability of Aviation Turbine Fuels	D 3948	375
Separability of Petroleum Oils	D 1401	377
Solubility in Hydrocarbon Lubricants	D 4056	378
in Solvents by Karl Fischer Titration	D 1364	379
Tolerance of Gasoline—Alcohol Blends	D 6422	380
Undissolved in Aviation Turbine Fuels	D 3240	381
Washout of Lubricating Greases	D 1264	382
WAX APPEARANCE POINT	D 3117	383
WEAR CHARACTERISTICS		
Lubricating Fluid (Four Ball Method)	D 4172	384
Lubricating Grease (Falex Test)	D 3704	385
Lubricating Grease (Four Ball Method)	D 2266	386
Petroleum Hydraulic Fluids	D 2882	387
Solid Film Lubricants	D 2981	388
Tractor Hydraulic Fluids	D 4998	389