

## ABBREVIATIONS & ACRONYMS

The following list will be helpful in defining the abbreviations that are commonly used for technical terms in the test methods that are offered by Texas OilTech Laboratories, Inc.

°C	Degrees Celsius
°F	Degrees Fahrenheit
µm	Micro Meter (sometimes called micron)
AA	Atomic Absorption
API	American Petroleum Institute
APP	Atactic Polypropylene
ASTM	American Society for Testing and Materials
AV	Apparent Viscosity
BACT	Best Available Control Technology
BOCLE	Ball-on-Cylinder Lubricity Evaluator
BOD	Biochemical Oxygen Demand
BS&W	Bottom Sediment and Water
BTEX	Benzene, Toluene, Ethyl Benzene, and Xylene
Btu	British Thermal Unit
C <sub>1</sub> to C <sub>40</sub>	Carbon Chain Number
CEC	Cation Exchange Capacity
CFPP	Cold Filter Plugging Point (diesel filters)
CHN	Carbon, Hydrogen, Nitrogen
COD	Chemical Oxygen Demand
cP	Centipoise
cSt	Centistoke
DIN	Deutsches Institut für Normung (German Institute for Standardization)
DOE	Department of Energy (USA)
DRO	Diesel Range Organics
DSC	Differential Scanning Calorimetry
EDTA	Ethylene Diamine Tetraacetic Acid
EOX	Extractible Organic Halides
EP	Extreme Pressure
EPA	Environmental Protection Agency (USA)
FCC	Fluid Catalytic Cracking
FDA	Food and Drug Administration
FIA	Fluorescent Indicator Absorption
FISST	Fuel Injector Shear Stability Test
FLAA	Flame Atomic Absorption Analysis
FT	Fourier Transform
FT-IR	Fourier Transform- Infrared
FZG	Forschungsstelle für Zahnräder und Getriebebau
GC	Gas Chromatography
GC-ECD	Gas Chromatography- Electron Capture Detector
GC-FID	Gas Chromatography-Flame Ionization Detector

GC-FPD	Gas Chromatography-Flame Photometric Detector
GC-MS	Gas Chromatography-Mass Spectrometry
GC-TCD-FID	Gas Chromatography with Thermal Conductivity Detector and Flame Ionization Detector
GFAA	Graphite Furnace Atomic Absorption
GRO	Gasoline Range Organics
HEM	Hexane Extractable Material
HFRR	High-Frequency Reciprocating Rig (diesel fuel)
HGI	Hardgrove Grindability Index
HHV	Higher Heating Value, Gross Heat of Combustion
HPLC	High Pressure Liquid Chromatography
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma Mass Spectrometry
IGCC	Integrated Gasification Combined-Cycle
ILSAC	International Lubricants Standardization and Approval Committee
ISO	International Organization for Standardization
JFTOT	Jet Fuel Thermal Oxidation Tester
LHV	Lower Heating Value, Net Heat of Combustion
LMOA	Locomotive Maintenance Officers Association
LOD	Limit of Detection
LP	Liquefied Petroleum
LPG	Liquefied Petroleum Gas
LTFT	Low Temperature Flow Test
MEHQ	Monomethyl Ether of Hydroquinone
mL	Milliliters
mm	Millimeter
MS	Mass Spectrometry
MSDS	Material Safety Data Sheet
MSEP	Micro Separometer Rating
MTBE	Methyl Tert-Butyl Ether
MW	Megawatt
NACE	National Association of Corrosion Engineers
NMR	Nuclear Magnetic Resonance
NMRS	Nuclear Magnetic Resonance Spectroscopy
NO <sub>x</sub>	Nitrogen Oxides
OECD	Office of Environmental Compliance and Documentation
O-PONA	Oxygenates and Paraffin, Olefin, Naphthene, Aromatic
PAC	Poly Aromatic Compounds
PIONA	Paraffins, Isoparaffins, Olefins, Naphthalenes, Aromatics
PMCC	Pensky-Martens Closed Cup
POX	Purgeable Organic Halogens
ppb	Parts per Million
ppm	Parts per Billion
PV	Plastic Viscosity
QA	Quality Assurance

QC	Quality Control
RBOT	Rotating Bomb Oxidation Test, currently called RPVOT
RDE-AES	Rotating Disc Electrode- Atomic Emission Spectroscopy
RDF	Refuse-Derived Fuel
RPVOT	Rotating Pressure Vessel Oxidation Test (Formerly, RBOT)
RTFOT	Rolling Thin-Film Oven Test
SAE	Society of Automotive Engineers
SCF	Standard Cubic Foot
SEC	Size Exclusion Chromatography
SEM	Scanning Electron Microscope
SFS	Saybolt Fuoral Seconds
SIM-DIS	Simulated Distillation by Gas Chromatography
SL-BOCLE	Scuffing Load Ball-on-Cylinder Lubricity Evaluator
SUS	Saybolt Universal Seconds
TAN	Total Acid Number
TBC	p-tertiary-butylcatechol (an inhibitor)
TCD-FID	Thermal Conductivity Detector and Flame Ionization Detector
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TFOUT	Thin Film Oxygen Uptake Test
TGA	Thermogravimetric Analysis
TOL	Texas OilTech Laboratories
TOX	Total Organic Halogens
TPH	Total Petroleum Hydrocarbons
TS	Total Solids
TSS	Total Suspended Solids
USP	United States Pharmacopeia
UV	Ultraviolet
VG	Viscosity-Gel
VGC	Viscosity-Gravity Constant
VOC	Volatile Organic Compound
vol%	Volume Percent
WSIM	Water Separometer Index, Modified
wt%	Weight Percent
YP	Yield Point