

# GUIDE TO ABBREVIATIONS

<b>2 T</b>	– Two-cycle or two-stroke
<b>4 T</b>	– Four-cycle or four-stroke
<b>4WD</b>	– Four-wheel Drive
<b>AAM</b>	– Alliance of Automobile Manufacturers (formerly AAMA - American Automobile Manufacturers Association)
<b>ACC</b>	– American Chemistry Council (formerly CMA - Chemical Manufacturers Association)
<b>ACEA</b>	– Association des Constructeurs Europeens d'Automobiles
<b>ABOT</b>	– Aluminum Beaker Oxidation Test
<b>AGMA</b>	– American Gear Manufacturers Association
<b>Allison C-4</b>	– Allison Specification
<b>API</b>	– American Petroleum Institute
<b>ASTM</b>	– American Society for Testing and Materials
<b>ATC</b>	– Additives Technical Committee (Technical Committee of Petroleum Additive Manufacturers in Europe)
<b>ATF</b>	– Automatic Transmission Fluid
<b>ATIEL</b>	– Association Technique de L'Industrie Européenne des Lubrifiants
<b>BCP</b>	– Bench, Chemical and Physical Properties
<b>BMEP</b>	– Brake Mean Effective Pressure
<b>BOI</b>	– Base Oil Interchange
<b>BS</b>	– Base Stock or Bright Stock
<b>CARB</b>	– California Air Resources Board Mandates

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CCMC Automobile	– Committee of Common Market Constructors (European Specification)
CCS	– Cold Cranking Simulator
CDX	– Catalytic Dewaxing
CFC	– Chlorinated Fluorocarbon
CFPP	– Cold Filter Plugging Point
CMA	– Chemical Manufacturers Association
CMS	– Cummins Material Specification
Code of Practice	– CMAs Product Approval Protocol
CPD	– Cloud Point Depressant
CRC	– Coordinating Research Council
DEXRON®	– General Motors ATF Specification
DI	– Detergent Inhibitor
DI	– Direct Fuel Injection (Two-Stroke)
DPF	– Diesel Particulate Filter
DYNO	– Dynamometer
EGR	– Exhaust Gas Recirculation
EMA	– Engine Manufacturers Association
EOLCS Certification	– APIs Engine Oil Licensing and System
EP	– Extreme Pressure Hydraulic Fluids
EPA	– Environmental Protection Agency
FAME	– Fatty Acid Methyl Ester
FDA	– Food & Drug Administration
FIE	– Fuel Injection Equipment

# GUIDE TO ABBREVIATIONS

- FRRET – CAT TO-4
- FZG – Wear Rig
- GCD – Gas Chromatography Distillation
- GF-1 – The First ILSAC Gasoline Engine Oil Standard Defining Minimum Requirements for North America
- GO – Gear Oil
- HC – Hydrocracking
- HD - HDD – Heavy Duty Diesel
- HDDEO – Heavy Duty Diesel Engine Oil
- HEUI – Hydraulically Actuated Electronically Controlled Unit Injector
- HFRR – High Frequency Reciprocating Rig
- HP – Horsepower
- HT/HS – High Temperature/High Shear
- ILMA – Independent Lubricant Manufacturers Association
- ILSAC – International Lubricant Standardization and Approval Committee
- IND – Industrial
- IR – Infrared Analysis
- ISO – International Standards Organization
- JAMA – Japan Automobile Manufacturers Association
- JASO – Japan Automobile Standards Organization
- JET – Jettubes
- KV – Kinematic Viscosity

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<b>LOFI</b>	–	<b>Lube Oil Flow Improver</b>
<b>LS</b>	–	<b>Limited Slip</b>
<b>LSD</b>	–	<b>Low Sulfur Diesel</b>
<b>LTFT</b>	–	<b>Low Temperature Flow Test</b>
<b>MDFI</b>	–	<b>Middle Distillate Flow Improver</b>
<b>MERCON®</b>	–	<b>Ford ATF Specification</b>
<b>MFVM</b>	–	<b>Multifunctional Viscosity Modifier</b>
<b>MG</b>	–	<b>Multigrade</b>
<b>MIL</b>	–	<b>Military Specification</b>
<b>MRV</b>	–	<b>Mini Rotary Viscometer</b>
<b>MS</b>	–	<b>Molecular Sieving</b>
<b>MTAC</b>	–	<b>Multiple Test Acceptance Criteria</b>
<b>MTBE</b>	–	<b>Methyl Tertiary-Butyl Ether</b>
<b>MTEP</b>	–	<b>Multiple Test Evaluation Procedures</b>
<b>MVMA</b>	–	<b>Motor Vehicle Manufacturers</b>
<b>Association</b>		
<b>NALSAS</b>	–	<b>North American Lubricant</b>
<b>Standardization</b>		
		<b>and Approval System</b>
<b>NCWM</b>	–	<b>National Conference of Weights and</b>
		<b>Measures</b>
<b>NLGI</b>	–	<b>National Lubricating Grease Institute</b>
<b>NMMA</b>	–	<b>National Marine Manufacturers</b>
<b>Association</b>		
<b>NOACK</b>	–	<b>Apparatus/Method for Volatility</b>
		<b>Measurement</b>

# GUIDE TO ABBREVIATIONS

OA	– Operability Additive
OEM	– Original Equipment Manufacturer
ORI	– Octane Requirement Increase
PAO	– Poly Alpha Olefin
PCEO	– Passenger Car Engine Oil
PIB	– Polyisobutylene
PPD	– Pour Point Depressant
PPEMA Assoc.	– Portable Power Equipment Manufacturers Assoc.
R&O	– Rust and Oxidation Hydraulic Fluids
SAE	– Society of Automotive Engineers
SAPS	– Sulfated Ash, Phosphorus, Sulfur
SCR	– Selective Catalytic Reduction
SDX	– Solvent Dewaxing
SEQ 1220	– CAT TO-4
SG	– Single Grade (monograde)
SLBOCLE	– Scuffing Load Ball On Cylinder Lubricity Evaluator
STUO	– Super Tractor Universal Oil
TAN	– Total Acid Number
TBN	– Total Base Number
TC-W, TC-WII, TC-W3	– NMMA Two-Cycle Outboard Oil Specifications
THF	– Tractor Hydraulic Fluid
TO-4	– Caterpillar Transmission Fluid Specification
TP-1	– Temperature Profile-1
TWC	– Three-Way Catalyst
ULSD	– Ultra Low Sulfur Diesel

# GUIDE TO ABBREVIATIONS

ULSK	–	Ultra Low Sulfur Kerosene
UV	–	Ultraviolet
VGO	–	Vacuum Gas Oil
VI	–	Viscosity Improver or Viscosity Index
VM	–	Viscosity Modifier
VPS	–	Vacuum Pipestill
VW	–	Volkswagen
WOT	–	Wide Open Throttle
ZDDP	–	Zinc Dialkyl Dithiophosphate