



## **ABBREVIATIONS, ACRONYMS & SYMBOLS**

### **A**

<b>AAM =</b>	<b>ALLIANCE of AUTOMOBILE MANUFACTURERS</b>
<b>AAMA =</b>	<b>AMERICAN AUTOMOBILE MANUFACTURERS ASSOCIATION</b>
<b>AAR =</b>	<b>AMERICAN ASSOCIATION of RAILROADS</b>
<b>ACC =</b>	<b>AMERICAN CHEMISTRY COUNCIL</b>
<b>ACEA =</b>	<b>ASSOCIATION des CONSTRUCTEURS EUROPÉEN de l'AUTOMOBILE (Association of European Automotive Manufactures)</b>
<b>ACGIH =</b>	<b>AMERICAN CONFERENCE of GOVERNMENTAL INDUSTRIAL HYGIENISTS</b>
<b>ACS =</b>	<b>AMERICAN CHEMICAL SOCIETY</b>
<b>AFNOR =</b>	<b>ASSOCIATION FRANÇAISE de NORMALISATION</b>
<b>AFV =</b>	<b>ALTERNATE FUEL VEHICLE</b>
<b>Ag =</b>	<b>SILVER, Atomic Number: 47, Atomic Weight: 107.868</b>
<b>AGMA =</b>	<b>AMERICAN GEAR MANUFACTURERS' ASSOCIATION</b>
<b>AGP =</b>	<b>ADMINISTRATIVE GUIDANCE PANEL</b>
<b>AHEM =</b>	<b>ASSOCIATION of HYDRAULIC EQUIPMENT MANUFACTURERS</b>
<b>AISE =</b>	<b>ASSOCIATION OF IRON &amp; STEEL ENGINEERS</b>
<b>AKI =</b>	<b>ANTI-KNOCK INDEX</b>
<b>Al =</b>	<b>ALUMINUM, Atomic Number: 13, Atomic Weight: 26.9815</b>

**AMAP = AFTERMARKET AUDIT PROGRAM**

**ANFAVEA = AUTO MANUFACTURERS ASSOCIATION (Brazil)**

**ANFOR = ASSOCIATION FRANÇAIS PETROLES de NORMALISATION**

**ANSI = AMERICAN NATIONAL STANDARD INSTITUTE**

**APE = ASSOCIATION of PETROLEUM ENGINEERS**

**API = AMERICAN PETROLEUM INSTITUTE**

**APT = AUTOMATICALLY PROGRAMMED TOOLS**

**ASCII = AMERICAN STANDARD for COMPUTER INFORMATION INTERCHANGE CODE**

**ASEAN = ASSOCIATION of SOUTH-EAST ASIAN NATIONS**

**ASEL = AMERICAN SOCIETY of LUBRICATION ENGINEERS**

**ASME = AMERICAN SOCIETY of MECHANICAL ENGINEERS**

**ASTM = AMERICAN SOCIETY FOR TESTING & MATERIALS**

**ATC = TECHNICAL COMMITTEE of PETROLEUM ADDITIVE MANUFACTURERS in EUROPE**

**ATF = AUTOMATIC TRANSMISSION FLUID**

**ATIEL = ASSOCIATION TECHNIQUE de L'INDUSTRIES EUROPÉENNE des LUBRIFIANTS**

**Au = GOLD, Atomic Number: 79, Atomic Weight: 196.9665**

## **B**

**B = BORON, Atomic Number: 5, Atomic Weight: 10.81**

**Ba = BARIUM, Atomic Number: 56, Atomic Weight: 137.34**

**BHRA = BRITISH HYDROMECHANICS RESEARCH ASSOCIATION**

**BLF = BRITICH LUBRICANTS FEDERATION**

**BMS =BOEING MATERIAL SPECIFICATIONS**

**BNP = BUREAU de NORMALISATION des PETROLES**

**BOD =BIOLOGICAL OXYGEN DEMAND**

**BOM = BUREAU of MINES**

**BS&W = BOTTOMS SETTING and WATER (The material which collects in the bottom of storage tanks, usually composed of oil, water, and foreign matter.**

**BTC = CEC BRITISH NATIONAL ORGANIZATION (British Technical Committee)**

**BTU = BRITISH THERMAL UNIT**

# C

- C = CARBON, Atomic Number: 6, Atomic Weight: 12.011**
- °C = DEGREASE CELSIUS**
- Ca = CALCIUM, Atomic Number: 20, Atomic Weight: 40.08**
- CAA = CLEAN AIR ACT**
- CaCO<sub>3</sub> = CALCIUM CARBONATE**
- CAD = COMPUTER AIDED DESIGN**
- CAE = COMPUTER AIDED ENGINEERING**
- CAFE = CORPORATE AVERAGE FUEL ECONOMY**
- CAM = COMPUTER ASSISTED MANUFACTURING**
- CARB = CALIFORNIA AIR RESOURCES BOARD**
- CARC = CARCINOGEN**
- CAS = CHEMICAL ABSTRACTS SERVICE**
- cc = CUBIC CINTIMETER**
- CCD = COMBUSTION CHAMBER DEPOSIT**
- CCMC = COMITE des CONSTRUCTEURS d'AUTOMOBILE du MARCHE COMMUM  
(Common Market Automobile Manufacturers Association)**
- CCS = COLD CRANKING SIMULATOR**
- CEC = CONSEIL EUROPÉEN de COORDINATION pour les DÉVELOPPEMENTS des  
ESSAIS de PERFORMANCE des LUBRIFIANTS et des COMBUSTIBLES pour  
MOTEURS (Coordinating Eurpoean Council)**
- CEC (Finland) = FINNISH PETROLEUM FEDERATION (member CEC)**
- CEC/SB = CONSEIL EUROPÉEN de COORDINATION/SOCIÉTÉ BEIGE (member CEC)**

# C

- CEFIC = EUROPEAN CHEMICAL INDUSTRY COUNCIL**
- CEN = CONSEIL EUROPÉEN de NORMALISATION**
- CEPA = CANADIAN ENVIRONMENTAL PROTECTION ACT**
- CEPP = CHEMICAL EMERGENCY PREPAREDNESS PROGRAM**
- CERCLA = COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION,  
and LIABILITY ACT**
- CFPP = COLD FILTER PLUGGING POINT TEST**
- CFR = COORDINATING FUEL and EQUIPMENT RESEARCH COMMITTEE**
- CFR = CODE of FEDERAL REGULATIONS**
- CHEMTREC = CHEMICAL TRANSPORTATION EMERGENCY CENTER**
- CID = COMMERCIAL ITEM DESCRIPTION (Used in many cases in lieu of military  
specifications)**
- CIM = COMPUTER INTEGRATED MANUFACTURING**
- CIMAC = INTERNATIONAL COUNCIL on COMBUSTION ENGINES**
- Cl = CHLORINE, Atomic Number: 17, Atomic Weight: 35.453**
- CLR = COOPERATIVE LUBRICATION RESEARCH**
- CMA = CHEMICAL MANUFACTURERS ASSOCIATION**
- CN = CETANE NUMBER**
- CNC = COMPUTERIZED NUMERICAL CONTROL**
- CO = CARBON MONOXIDE**
- CO<sub>2</sub> = CARBON DIOXIDE**

# C

**COC = CLEVELAND OPEN-CUP (ASTM D-92)**

**COD = CHEMICAL OXYGEN DEMAND**

**CONCAWE = CONSERVATION of CLEAN AIR and WATER (Europe)**

**cP. = CENTIPOISE**

**CPSC = CONSUMER PRODUCT SAFETY COMMISSION**

**Cr = CHROMIUM, Atomic Number: 24, Atomic Weight: 51.996**

**CRC = COORDINATING RESEARCH COUNCIL (USA)**

**cSt = CENTISTOKE**

**Cu = COPPER, Atomic Number: 29, Atomic Weight: 63.546**

**CUNA = COMMISSIONE TECNICA di UNIFICAZIONE nel l'AUTOVEICOLO  
(member CEC)**

**CWA = CLEAN WATER ACT**

# **D**

**DAP = DETROIT ADVISORY PANEL**

**DASHO = DESIGNATED AGENCY SAFETY & HEALTH OFFICIAL**

**DEO = DIESEL ENGINE OIL**

**DHHS = DEPARTMENT of HEALTH & HUMAN SERVICES**

**DIN = DEUTSCHE INDUSTRIE NORM**

**DKA = DEUTSCHER KOORDINIERUNGS AUSSCHUSS im COORDINATING  
EUROPEAN COUNCIL (member CEC)**

**DNC = DIRECT NUMERICAL CONTROL**

**DPM = DOUGLAS PART NUMBERS**

**DOL = DEPARTMENT of LABOR**

**DOT = DEPARTMENT of TRANSPORTATION**

# **E**

<b>EAME =</b>	<b>EUROPE, AFRICA, and MIDDLE EAST</b>
<b>EC &amp; EC II =</b>	<b>ENERGY CONSERVING and ENERGY CONSERVING II</b>
<b>ECE =</b>	<b>ECONOMIC COMMISSION for EUROPE</b>
<b>ECM =</b>	<b>ELECTROCHEMICAL MACHINING</b>
<b>EDM =</b>	<b>ELECTRICAL DISCHARGE MACHINING</b>
<b>EDR =</b>	<b>EQUIVALENT DIRECT RADIATION</b>
<b>EDTA =</b>	<b>ETHYLENE DIAMINETETRAACETIC ACID</b>
<b>EEB =</b>	<b>EUROPEAN ENVIRONMENTAL BOARD</b>
<b>EEC =</b> <b>(CEE)</b>	<b>EUROPEAN ECONOMIC COMMUNITY (Conseil Européen Economique)</b>
<b>EELQMS =</b>	<b>EUROPEAN ENGINE LUBRICANT QUALITY MANAGEMENT SYSTEM</b>
<b>EFTC =</b>	<b>ENGINE FUELS TECHNICAL COMMITTEE (of CEC)</b>
<b>EGR =</b>	<b>EXHAUST GAS RECIRCULATION</b>
<b>EHD =</b>	<b>ELASTOHYDRODYNAMIC LUBRICATION</b>
<b>EHS =</b>	<b>EXTREMELY HAZARDOUS SUBSTANCES</b>
<b>ELGI =</b>	<b>EUROPEAN LUBRICATING GREASE INSTITUTE</b>
<b>ELTC =</b>	<b>ENGINE LUBRICANTS TECHNICAL COMMITTEE (of CEC)</b>
<b>EMA =</b>	<b>ENGINE MANUFACTURERS ASSOCIATION</b>
<b>EOLCS =</b>	<b>ENGINE OIL LICENSING and CERTIFICATION SYSTEMS</b>
<b>EP =</b>	<b>EXTREME PRESSURE</b>
<b>EPA =</b>	<b>ENVIRONMENTAL PROTECTION AGENCY</b>
<b>EPCRA =</b>	<b>EMERGENCY PLANNING and COMMUNITY RIGHT to KNOW ACT</b>
<b>ETLP =</b>	<b>ENGINE TESTS of LUBRICANTS PANEL (of IP)</b>
<b>EU =</b>	<b>EUROPEAN UNION</b>



# **F**

**°F = FAHRENHEIT**

**FACOSH = FEDERAL ADVISORY COUNCIL for OCCUPATIONAL SAFETY & HEALTH**

**FAS = FREE ALONG SIDE**

**FDA = FOOD and DRUG ADMINISTRATION**

**Fe = IRON, Atomic Number: 26, Atomic Weight: 55.847**

**FFSHC = FIELD FEDERAL SAFETY & HEALTH COUNCILS**

**FFV = FLEXIBLE-FUEL VEHICLE**

**FHCP = FEDERAL HAZARD COMMUNICATION PROGRAM**

**FIFRA = FEDERAL INSECTICIDE, FUNGICIDE, & RODENTICIDE ACT**

**FMEA = FAILURE MODE and EFFECT ANALYSIS**

**FOB = FREE ON BOARD**

**FOT = FREE ON TRUCK**

**FTM = U.S. FEDERAL TEST METHOD**

**FTP = U.S. FEDERAL TEST PROCEDURE**

**FZG = FORSCHUNGSTELLE für ZAHNRADER und GETRIEBAU  
(Germany Gear Test for Evaluating EP Properties)**

# **G**

<b>g =</b>	<b>GRAM(s)</b>
<b>G/KG =</b>	<b>GRAMS PER KILOGRAM</b>
<b>GAL. =</b>	<b>GALLON</b>
<b>GATC =</b>	<b>GROSS ADDITIVE TREATING COST</b>
<b>GATT =</b>	<b>GENERAL AGREEMENT on TARIFFS and TRADE</b>
<b>GDTC =</b>	<b>GROSS DELIVERED TREATING COST</b>
<b>GFC =</b>	<b>GROUPEMENT FRANCAIS de CO-ORDINATION (member CEC)</b>
<b>GOST =</b>	<b>GOSUDARSTVYENY STANDART (USSR)</b>
<b>GPD =</b>	<b>GALLONS per DAY</b>
<b>GPG =</b>	<b>GRAINS per GALLON</b>
<b>GPH =</b>	<b>GALLONS per HOUR</b>
<b>GQT =</b>	<b>GASOLINE QUALITY TEST</b>
<b>gr =</b>	<b>GRAM(s)</b>
<b>GRPE =</b>	<b>GROUP of RAPPORTEURS on POLLUTION and ENERGY</b>
<b>GTBA =</b>	<b>GASOLINE GRADE TERTIARY BUTYL ALCOHOL</b>

# **H**

**H = HYDROGEN, Atomic Number: 1, Atomic Weight: 1.0080**

**H = HARDNESS**

**HAZOP = HAZARD and OPERABILITY STUDY**

**HC = HYDROCARBONS; Heavy Carbon (i.e. Crownland HC)**

**HC1 = HYDROCHLORIC ACID**

**HCS = HAZARD COMMUNICATION STANDARD**

**HD = HEAVY-DUTY**

**He = HELIUM, Atomic Number: 2, Atomic Weight: 4.00260**

**HFRR = HIGH FREQUENCY RECIPROCATING RIG**

**Hg = MERCURY, Atomic Number: 80, Atomic Weight: 200.59**

**HMIS = HAZARDOUS MATERIAL INFORMATION SYSTEM**

**Hp = HORSEPOWER**

**HSS = HIGH SPEED STEEL**

**HTHS = HIGH TEMPERATURE HIGH SHEAR RATE VISCOSITY**

**HVI = HIGH VISCOSITY INDEX**

# **I**

<b>I =</b>	<b>IODINE, Atomic Number: 53, Atomic Weight: 126.9045</b>
<b>IARC =</b>	<b>INTERNATIONAL AGENCY for RESEARCH on CANCER</b>
<b>IATA =</b>	<b>INTERNATIONAL AIR TRANSPORT ASSOCIATION</b>
<b>IChemE =</b>	<b>INSTITUTE of CHEMICAL ENGINEERS (UK)</b>
<b>ICOMIA =</b>	<b>INTERNATIONAL COUNCIL for MARINE INDUSTRY ASSOCIATIONS</b>
<b>ID =</b>	<b>INNER DIAMETER</b>
<b>IDLH =</b>	<b>IMMEDIATELY DANGEROUS to LIFE and HEALTH</b>
<b>LEL =</b>	<b>LOWER EXPLOSIVE LIMIT</b>
<b>LFL =</b>	<b>LOWER FLAMMABLE LIMIT</b>
<b>IFP =</b>	<b>INSTITUT FRANÇAIS du PÉTROLE</b>
<b>I.F.T. =</b>	<b>INTERFACIAL TENSION</b>
<b>IGL =</b>	<b>INVESTIGATION GROUP LUBRICANTS (of CEC)</b>
<b>ILMA =</b>	<b>INDEPENDENT LUBRICANT MANUFACTURERS ASSOCIATION</b>
<b>ILSAC =</b>	<b>INTERNATIONAL LUBRICANT STANDARIZATION and APPROVAL COMMITTEE</b>
<b>IMOC =</b>	<b>INTERNATIONAL MARITIME ORGANIZATION CLASSIFICATION</b>
<b>IP =</b>	<b>INSTITUTE of PETROLEUM (UK)</b>
<b>ISO =</b>	<b>INTERNATIONAL ORGANIZATION for STANDARDIZATION</b>
<b>ISO =</b>	<b>VISCOSITY CLASSIFICATION SYSTEM - INTERNATIONAL SYSTEM</b>
<b>IVD =</b>	<b>INTAKE VALVE DEPOSIT</b>

# **J**

**JAMA = JAPAN AUTOMOBILE MANUFACTURERS ASSOCIATION, INC.**

**JARI = JAPAN AUTOMOBILE RESEARCH INSTITUTE**

**JASO = JAPAN AUTOMOBILE STANDARDS ORGANIZATION**

**JAST = JAPAN SOCIETY of TRIBOLOGISTS**

**JIS = JAPANESE INDUSTRIAL STANDARDS**

**JIT = JUST in TIME**

**JSAE = SOCIETY of AUTOMOTIVE ENGINEERS, JAPAN**

# **K**

**K = POTASSIUM, Atomic Number: 19, Atomic Weight: 39.102**

**KC = KEEP-CLEAN**

**kg = KILOGRAMS**

# **L**

<b>LAC =</b>	<b>LOWEST ADDITIVE CONCENTRATION</b>
<b>LAN =</b>	<b>LOCAL AREA NETWORK</b>
<b>LB =</b>	<b>POUND(s)</b>
<b>LC =</b>	<b>LETHAL CONCENTRATION</b>
<b>LC50 =</b>	<b>LETHAL CONCENTRATION, 50% MORTALITY</b>
<b>LCL =</b>	<b>LETHAL CONCENTRATION LOW</b>
<b>LD =</b>	<b>LETHAL DOSE</b>
<b>LD 50 =</b>	<b>LETHAL DOSE 50%</b>
<b>LDL =</b>	<b>LETHAL DOSE LOW</b>
<b>LEL =</b>	<b>LOWER EXPLOSIVE LIMIT</b>
<b>LFL =</b>	<b>LOWER FLAMMABLE LIMIT</b>
<b>Lfpm =</b>	<b>LINEAR FEET PER MINUTE, (a unit of air velocity)</b>
<b>Li =</b>	<b>LITHIUM, Atomic Number: 3, Atomic Weight: 6.941</b>
<b>LNG =</b>	<b>LIQUEFIED NATURAL GAS</b>
<b>LPG =</b>	<b>LIQUEFIED PETROLEUM GAS</b>
<b>LRI =</b>	<b>LUBRICANTS REVIEW INSTITUTE (USA)</b>
<b>lt. =</b>	<b>LITER</b>
<b>LTFT =</b>	<b>LOW TEMPERATURE FLOW TEST</b>
<b>LTMS =</b>	<b>LUBRICANT TEST MONITORING SYSTEMS</b>
<b>LVP =</b>	<b>LOW VAPOR PRESSURE</b>
<b>LWI =</b>	<b>LOAD WEAR INDEX</b>

# **M**

**M = METER**

**M<sup>3</sup> = CUBIC METER, (approx. 35.3 cubic feet or 1.3 cubic yards)**

**MAD = MILEAGE ACCUMULATION DYNAMOMETER**

**MAP = MANUFACTURING AUTOMATION PROTOCOL**

**MFI = MULTIPOINT FUEL INJECTION**

**Mg = MAGNESIUM, Atomic Number: 12, Atomic Weight: 24.305**

**mg = MILLIGRAMS**

**mg/m<sup>3</sup> = MILLIGRAMS PER CUBIC METER**

**MIL SPEC = MILITARY SPECIFICATION**

**MISC. = MISCELLANEOUS**

**MITI = MINISTRY of INTERNATIONAL TRADE INDUSTRY**

**ml = MILLILITER**

**mmHg = MILLIMETERS (mm) OF MERCURY (Hg)**

**MMT = METHYLCYCLOPENTADIENYL MANGANESE TRICARBONYL**

**Mn = MANGANESE, Atomic Number: 25, Atomic Weight: 54.0380**

**Mo = MOLYBDENUM, Atomic Number: 42, Atomic Weight: 95.94**

**MOLY = MOLYBDENUM DISULFIDE**

**MON = MOTOR OCTANE NUMBER**

**MoS<sub>2</sub> = MOLYBDENUM DISULFIDE**



# **M**

**MPG = MILES per GALLON**

**MPH = MILES per HOUR**

**mppef = MILLION PARTICLES PER CUBIC FOOT**

**MPY = MILES per YEAR**

**MRP = MATERIALS REQUIREMENTS PLANNING**

**MSDS = MATERIAL SAFETY DATA SHEET**

**MSHA = MINE SAFETY & HEALTH ADMINISTRATION**

**MTAC = MULTIPLE TEST ACCEPTANCE CRITERIA**

**MTBE = METHYL TERTIARY BUTYL ETHER**

**MVEG = MOTOR VEHICLE EMISSION GROUP**

**MVMA = MOTOR VEHICLE MANUFACTURERS ASSOCIATION**

# **N**

<b>N =</b>	<b>NITROGEN, Atomic Number: 7, Atomic Weight: 14.0067</b>
<b>N<sub>2</sub> =</b>	<b>NITROGEN</b>
<b>NA =</b>	<b>NOT APPLICABLE or NOT AVAILABLE</b>
<b>Na =</b>	<b>SODIUM, Atomic Number: 11, Atomic Weight: 22.9898</b>
<b>NACE =</b>	<b>NATIONAL ASSOCIATION of CORROSION ENGINEERS</b>
<b>NAFTA =</b>	<b>NORTH AMERICAN FREE TRADE AGREEMENT</b>
<b>NATC =</b>	<b>NET ADDITIVE TREATING COST</b>
<b>NATO =</b>	<b>NORTH ATLANTIC TREATY ORGANIZATION</b>
<b>N/AV =</b>	<b>NOT AVAILABLE</b>
<b>NC =</b>	<b>NUMERICAL CONTROL</b>
<b>NCI =</b>	<b>NATIONAL CANCER INSTITUTE</b>
<b>NCM =</b>	<b>NATIONAL COMITE MOTORPROEVEN (Netherlands) (member CEC)</b>
<b>NCRP =</b>	<b>NATIONAL COUNCIL on RADIATION PROTECTION and MEASUREMENTS</b>
<b>NDTC =</b>	<b>NET DELIVERED TREATING COST</b>
<b>NESHAP (HON)=</b>	<b>HAZARDOUS ORGANIC NESHAP or THE HON,</b>
<b>NFPA =</b>	<b>NATIONAL FIRE PROTECTION ASSOCIATION</b>
<b>ng =</b>	<b>NANOGRAM, (one-billionth of a gram)</b>
<b>Ni =</b>	<b>NICKEL, Atomic Number: 28, Atomic Weight: 58.71</b>
<b>NIOSH =</b>	<b>NATIONAL INSTITUTE for OCCUPATIONAL SAFETY and HEALTH</b>
<b>N/K =</b>	<b>NOT KNOWN</b>

# **N**

**NLGI = NATIONAL LUBRICATING GREASE INSTITUTE**

**NMMA = NATIONAL MARINE MANUFACTURERS ASSOCIATION (formerly BIA)**

**NO<sub>x</sub> = NITROGEN OXIDES**

**NPIRS = NATIONAL PESTICIDE INFORMATION RETRIEVAL SYSTEM**

**NRC = NATIONAL RESPONSE CENTER**

**NSN = NATIONAL STOCK NUMBER**

**NTP = NATIONAL TOXICOLOGY PROGRAM**

**NVMA = NATIONAL VEHICLE MANUFACTURERS ASSOCIATION**

# **O**

<b>O<sup>2</sup></b>	<b>=</b>	<b>OXYGEN, Atomic Number: 8, Atomic Weight: 15.9994</b>
<b>OD</b>	<b>=</b>	<b>OUTER DIAMETER</b>
<b>OECD</b>	<b>=</b>	<b>ORGANIZATION ECONOMIC COOPERATION and DEVELOPMENT</b>
<b>OEM</b>	<b>=</b>	<b>ORIGINAL EQUIPMENT MANUFACTURER</b>
<b>OFAP</b>	<b>=</b>	<b>OFFICE of FEDERAL AGENCY PROGRAMS</b>
<b>OHM</b>	<b>=</b>	<b>RESISTANCE to the PASSAGE of ELECTRIC CURRENT</b>
<b>OLAP</b>	<b>=</b>	<b>OIL LABELING ASSESSMENT PROGRAM</b>
<b>ON</b>	<b>=</b>	<b>OCTANE NUMBER</b>
<b>ONR</b>	<b>=</b>	<b>OCTANE NUMBER REQUIREMENT</b>
<b>OR</b>	<b>=</b>	<b>OCTANE REQUIREMENT</b>
<b>ORD</b>	<b>=</b>	<b>OCTANE REQUIREMENT DECREASE</b>
<b>ORI</b>	<b>=</b>	<b>OCTANE REQUIREMENT INCREASE</b>
<b>OSHA</b>	<b>=</b>	<b>OCCUPATIONAL SAFETY &amp; HEALTH ADMINISTRATION</b>
<b>oz.</b>	<b>=</b>	<b>OUNCE</b>

# **P**

<b>P =</b>	<b>PHOSPHORUS, Atomic Number: 15, Atomic Weight: 30.9738</b>
<b>P =</b>	<b>POISE</b>
<b>PAG's =</b>	<b>POLYALKYLENE GLYCOLS</b>
<b>PAJ =</b>	<b>PETROLEUM ASSOCIATION of JAPAN</b>
<b>PAN =</b>	<b>PHENYL-ALPHA-NAPHTHYLAMINE, (a commonly used antioxidant)</b>
<b>PAO =</b>	<b>POLYALPHAOLEFINS</b>
<b>PAPTG =</b>	<b>PRODUCT APPROVAL PROTOCOL TASK GROUP</b>
<b>PCMO =</b>	<b>PASSENGER CAR MOTOR OIL</b>
<b>PCV =</b>	<b>POSITIVE CRANKCASE VENTILATION</b>
<b>PEL =</b>	<b>PERMISSIBLE EXPOSURE LIMIT</b>
<b>PFI =</b>	<b>PORT FUEL INJECTOR</b>
<b>pH =</b>	<b>VARIOUS DEGREES of ACIDITY and ALKALINITY (7 to 14 indicate greater alkalinity, 7 to 0 indicate greater acidity)</b>
<b>PMCC =</b>	<b>PENSKY-MARTENS CLOSED CUP</b>
<b>PO<sup>2</sup> =</b>	<b>PHOSPHATE, Atomic Number: 15, Atomic Weight: 30.9738</b>
<b>ppb =</b>	<b>PARTS per BILLION</b>
<b>ppm =</b>	<b>PARTS per MILLION</b>
<b>PPMA =</b>	<b>PARTS PER MILLION ACTIVE</b>
<b>PPMV =</b>	<b>PARTS PER MILLION VOLUME</b>
<b>PPVL =</b>	<b>PERCENTAGE PERMANENT VISCOSITY LOSS</b>
<b>PQV =</b>	<b>PROGRAM-QUALITY VERIFICATION</b>
<b>PRF =</b>	<b>PRIMARY REFERENCE FUEL (Gasoline)</b>

**psi = POUNDS per SQUARE INCH**

**PSM = PROCESS SAFETY MANAGEMENT of HIGHLY HAZARDOUS CHEMICALS**

**Pt = PLATINUM, Atomic Number: 78, Atomic Weight: 195.09**

**pt. = PINT**

**PTVL = PERCENTAGE TEMPORARY VISCOSITY LOSS**

**Pul = PULMONARY**

**PVL = PERMANENT VISCOSITY LOSS**

# Q

**QA = QUALITY ASSURANCE**

**QC = QUALITY CONTROL**

**QPL = QUALIFIED PRODUCT LIST**

**qt. = QUART**

# R

**(R+M)/2 = RESEARCH OCTANE NUMBER PLUS MOTOR OCTANE NUMBER, DIVIDED by 2**

**RAM = RANDOM ACCESS MEMORY**

**RCRA = RESOURCE CONSERVATION and RECOVERY ACT**

**RdON = ROAD OCTANE NUMBER**

**REL = RECOMMENDED EXPOSURE LIMIT**

**REPRO = REPORTABLE**

**RO = REVERSE OSMOSIS**

**ROM = READ ONLY MEMORY**

**R&O = RUST & OXIDATION**

**RON = RESEARCH OCTANE NUMBER**

**RPM = REVOLUTIONS PER MINUTE**

**RPM = RISK MANAGEMENT PROGRAMS**

**RQ = REPORTABLE QUANTITY**

**RSI = REGISTRATIONS SYSTEMS, INC.**

**RVP = VAPOR PRESSURE-REID**



# **S**

<b>S =</b>	<b>SULFUR, Atomic Number: 16, Atomic Weight: 32.06</b>
<b>SAE =</b>	<b>SOCIETY of AUTOMOTIVE ENGINEERS (USA)</b>
<b>S.A.N. =</b>	<b>STRONG ACID NUMBER</b>
<b>SARA =</b>	<b>SUPERFUND AMENDMENT AND REAUTHORIZATION ACT</b>
<b>S.B.N. =</b>	<b>STRONG BASE NUMBER</b>
<b>SCL =</b>	<b>SULFUR, CHLORINE and LEAD</b>
<b>SETA =</b>	<b>SETAFLASH CLOSED TESTER</b>
<b>Si =</b>	<b>SILICON, Atomic Number: 14, Atomic Weight: 28.086</b>
<b>SIC =</b>	<b>STANDARD INDUSTRIAL CLASSIFICATION</b>
<b>SIO<sup>2</sup> =</b>	<b>SILICA</b>
<b>SME =</b>	<b>SOCIETY of MANUFACTURING ENGINEERS</b>
<b>SMR =</b>	<b>SVENSKA MEKANISTERS RIKSFORENIG (member CEC)</b>
<b>Sn =</b>	<b>TIN, Atomic Number: 50, Atomic Weight: 118.69</b>
<b>SNV =</b>	<b>SCHWEIZERISCHE NORMENVEREINIUNG (member CEC)</b>
<b>SO<sub>2</sub> =</b>	<b>SULFUR OXIDIZE</b>
<b>SO<sup>3</sup> =</b>	<b>SULFITE</b>
<b>SO<sub>x</sub> =</b>	<b>OXIDES of SULFUR</b>
<b>SS =</b>	<b>SUSPENDED SOLIDS</b>
<b>SSI =</b>	<b>SHEAR STABILITY INDEX</b>

# **S**

**St = STOKE**

**STEL = SHORT TERM EXPOSURE LIMIT**

**STLE = SOCIETY of TRIBOLOGISTS and LUBRICATING ENGINEERS**

**STOU = SUPER TRACTOR OIL UNIVERSAL**

**SUS (SSU) = SAYBOLT UNIVERSAL SECONDS**

**SwRI = SOUTHWEST RESEARCH INSTITUTE**

**Sys = SYSTEM or SYSTEMIC**

# **T**

<b>Ta =</b>	<b>TANTALUM, Atomic Number: 73, Atomic Weight: 180.9479</b>
<b>TAN =</b>	<b>TOTAL ACID NUMBER</b>
<b>TBI =</b>	<b>THROTTLE BODY INJECTOR</b>
<b>TBN =</b>	<b>TOTAL BASE NUMBER</b>
<b>TC =</b>	<b>TECHNICAL CONDITIONS</b>
<b>TCC =</b>	<b>TAG (Tagliabue) CLOSED CUP</b>
<b>TCL =</b>	<b>TOXIC CONCENTRATION LOW</b>
<b>TCLP =</b>	<b>TOXIVITY CHARACTERISTIC LEACHING PROCEDURE</b>
<b>TCP =</b>	<b>TOOL CENTER POINT</b>
<b>TDL =</b>	<b>TOXIC DOSE LOW</b>
<b>TDS =</b>	<b>TOTAL DISSOLVED SOLIDS</b>
<b>Tfx =</b>	<b>TOXIC EFFECT(s)</b>
<b>Ti =</b>	<b>TITANIUM, Atomic Number: 22, Atomic Weight: 47.90</b>
<b>TISI =</b>	<b>THAI INDUSTRIAL STANDARDS INSTITUTE</b>
<b>TLV =</b>	<b>THRESHOLD LIMIT VALUE</b>
<b>TLV-C =</b>	<b>THRESHOLD LIMIT VALUE - CEILING</b>
<b>TOC =</b>	<b>TAG OPEN CUP</b>
<b>TOP =</b>	<b>TECHNICAL and OFFICE PROTOCOL</b>
<b>Torr =</b>	<b>A Unit of Pressure, equal to 1/760 atmosphere</b>
<b>TOST =</b>	<b>TURBINE OIL OXIDATION STABILITY TEST</b>

# **T**

**TS = TOTAL SOLIDS**

**TSCA = TOXIC SUBSTANCES CONTROL ACT**

**TSSI = TEMPORARY SHEAR STABILITY INDEX**

**TUV = TECHNISCHER ÜBERWACHUNGS VERIEN (Germany)**

**TVL = TEMPORARY VISCOSITY LOSS**

**TWA = TIME WEIGHTED AVERAGE**

## **U**

<b>U =</b>	<b>URANIUM, Atomic Number: 92, Atomic Weight: 238.029</b>
<b>UEIL =</b>	<b>EUROPEAN UNION of INDEPENDENT LUBRICANT MANUFACTURERS</b>
<b>UEP =</b>	<b>UPPER EXPLOSIVE LIMIT</b>
<b>UFL =</b>	<b>UPPER FLAMMABLE LIMIT</b>
<b>μHO =</b>	<b>MICROMHO</b>
<b>UK =</b>	<b>UNITED KINGDOM</b>
<b>USCG =</b>	<b>UNITED STATES COAST GUARD</b>
<b>USDA =</b>	<b>UNITED STATES DEPARTMENT of AGRICULTURE</b>
<b>USP =</b>	<b>UNITED STATES PHARMACOPOEIA</b>
<b>USS =</b>	<b>UNITED STATE STEEL</b>
<b>UTTO =</b>	<b>UNIVERSAL TRACTOR TRANSMISSION OILS</b>

## **V**

<b>VI =</b>	<b>VISCOSITY INDEX</b>
<b>VI =</b>	<b>VISCOSITY INDEX IMPROVER</b>
<b>VOC =</b>	<b>VOLATILE ORGANIC COMPOUNDS</b>

## **W**

**W = TUNGSTEN, Atomic Number: 74, Atomic Weight: 183.85**

**WBT = WET BULB TEMPERATURE**

**WHMIS = WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEMS  
(Canada)**

**WP = WELD POINT**

## **X**

**Xe = XENON, Atomic Number: 54, Atomic Weight: 131.30**

## **Y**

**Y = YTTRIUM, Atomic Number: 39, Atomic Weight: 88.9059**

## **Z**

**ZDDP = ZINC DIALKYL DITHIOPHOSPHATE or ZINC DIARYL DITHIOPHOSPHATE**

**ZDP = ZINC DITHIOPHOSPHATE**

**Zn = ZINC, Atomic Number: 30, Atomic Weight: 65.37**

=	=	<b>EQUAL</b>
>	=	<b>GREATER THAN</b>
<	=	<b>LESS THAN</b>
%	=	<b>PERCENT</b>
#	=	<b>NUMBER if it PRECEDES a NUMBER (track # 3); POUNDS if it FOLLOWS (a 5 # sack of sugar)</b>
@	=	<b>AT; EACH</b>
c/o	=	<b>CARE of</b>
\$	=	<b>DOLLARS (US)</b>
?	=	<b>QUESTION MARK</b>
£	=	<b>POUNDS (England)</b>
/	=	<b>SHILLINGS (England)</b>
™	=	<b>TRADEMARK</b>
®	=	<b>REGISTERED TRADEMARK</b>
©	=	<b>COPYRIGHTED</b>
°	=	<b>DEGREE</b>
μ	=	<b>MICRON</b>
¶	=	<b>PARAGRAPH</b>
§	=	<b>SECTION or NUMBER CLAUSE</b>
!	=	<b>EXCLAMATION POINT</b>
*	=	<b>ASTERISK</b>
'	=	<b>APOSTROPHE</b>
[]	=	<b>BRACKETS</b>
:	=	<b>COLON</b>

,	=	<b>COMMA</b>
!	=	<b>EXCLAMATION POINT</b>
-	=	<b>HYPHEN</b>
...	=	<b>ELLIPSIS</b>
()	=	<b>PARENTHESSES</b>
“”	=	<b>QUOTATION MARKS</b>
;	=	<b>SEMICOLON</b>
/	=	<b>VIRGULE</b>