



**ADVANCED  
LUBRICATION  
SPECIALTIES**

ISO 9001:2000 Registered

## PRODUCT INFORMATION

### ADVANTAGE 15W40 SYNTHETIC BLEND PREMIUM PLUS ENGINE OIL

**ADVANTAGE 15W40 Synthetic Blend Premium Plus** is formulated with synthetic base stocks for superior anti-oxidation characteristics and enhanced high temperature stability to meet or exceed the warranty requirements of all manufacturers of diesel and gasoline engines. This oil is formulated to meet the Mack EO-O Premium Plus '07 specification and API CJ-4/SM specification for use in EGR equipped heavy-duty diesel engines in high output service. Advantage 15W40 Premium Plus meets the performance requirements of most diesel engine manufacturers such as *Caterpillar, Cummins, Detroit Diesel, Ford, Mack, Navistar, and Volvo*. It can be used with complete success in over-the-road diesel trucks, off-highway diesel equipment, farm tractors, and passenger cars and light trucks with diesel engines, turbo-charged or non turbo-charged and well as gasoline engines. Since the introduction of ultra low sulfur fuels, high TBN oil is no longer a crucial need. Field tests have shown our CJ-4 oils **retain** TBN levels for longer periods due to the advanced technology of the new additive chemistry.

**ADVANTAGE 15W40 Premium Plus** meets or exceeds all the requirements of API CJ-4, CI-4, CI-4 Plus, CH-4, CG-4, CF-4 and SM. ADVANTAGE 15W-40 also meets the extended drain requirements of Cummins CES 20076, Mack EO-O Premium Plus, and Volvo VDS. Manufacturer Specifications: *Allison C-4, Caterpillar ECF-1 & ECF-3, Cummins CES 20076, CES 20077, CES 20081, Detroit Diesel series 92, DDC series 2000, DDC series 4000, Detroit Diesel PGOS 93K217, Mack EO-O Premium Plus '07, Mack EON Premium Plus '03,, Volvo VDS, VDS-2, VDS-3, VDS-4, MB 228.3, MTU Type II and ACEA E7.*

### TYPICAL PROPERTIES PRODUCT CODE 528

PROPERTY	15W40 Premium Plus
CCS, cP( @ -20°C)	6752
Viscosity, cSt @ 100°C	15.35
Viscosity, cSt @ 40°C	119.20
Viscosity Index	135
Pour Point, °C	-39
Sulfated Ash, Wt. (%)	0.985
Calcium, Wt. (%)	.2950
Phosphorous, Wt. (%)	.1080
Magnesium, Wt. (%)	Nil
Zinc, Wt. (%)	.1200
Sulfur, Wt. (%)	.3765
Nitrogen, Wt. (%)	.093
Total Base No., (D2896)	9.50
Specific Gravity	0.8999
Flash Point, °C	220

PERFORMANCE	15W40 PP
API CJ-4, CI-4, CH-4, CG-4, CF-4, CF	X
API CI-4 Plus (Supplemental)	X
API SM / SL	X
ACEA E5 & E7	X
Caterpillar TO-2	X
Cummins CES 20076 & 20077	X
Cummins CES 20081	X
Detroit Diesel PGOS 93K217	X
MACK EO-O Premium Plus '07	X
EO-N Premium plus & EO-M	X
Volvo VDS & VDS-2	X
Volvo VDS-3 & VDS-4	X
Caterpillar ECF-1 & ECF-3	X

0807