

671 SUPREME 2-STROKE DD DIESEL ENGINE OIL SAE 40

Supreme 2-Stroke DD is a super high-performance, para-synthetic, monograde, diesel engine oil for use in 2-stroke and 4-stroke diesel engines. Supreme 2-Stroke DD is formulated for use in off-highway diesel equipment, farm machinery, and marine engines where the OEM specifies an SAE 40.

Supreme 2-Stroke DD is blended with quality base oils and additives, including high performance detergents, dispersants, oxidation and wear inhibitors; to protect engines that operate under severe conditions and offer the following benefits:

- **PERFORMANCE**
 - Excellent protection and performance in older engines burning ultra-low sulfur fuel
 - High levels of TBN reserve
 - Minimizes ash deposit formation on valve seats, faces and intake ports—to maintain power output in 2-stroke engines
 - Low volatility properties which reduces oil consumption
 - Improved engine durability and reduced maintenance costs

- **DEPOSIT/CORROSION PROTECTION**
 - High-temperature deposit control—protects against oxidation and oil thickening
 - Soot dispersency—protects against abrasive soot wear and oil thickening
 - Excellent resistance to thermal degradation and increased engine cleanliness

- **WEAR PROTECTION**
 - Extreme pressure and anti-wear properties to protect critical valve-train components
 - Excellent protection against rust, corrosion, varnish, and sludge to help keep oil screens, filters, and piston rings clean and free.

Further blended into Supreme 2-Stroke DD are two proven frictional modifiers, Micron Moly®, a liquid soluble type of moly, and Schaeffer Manufacturing's own proprietary additive Penetro®. Once plated, these frictional modifiers form a long lasting, slippery, tenacious lubricant film, which prevents metal-to-metal contact and damaging frictional wear.

SPECIFICATIONS AND RECOMMENDATIONS

- Meets and exceeds API Service Classifications CF and CF-2
- Detroit Diesel Requirements for Series 53, 71, 92 and 149
- MTU Oil Type 1
- MAN 271
- Volvo VDS

NOTE: Supreme 2-Stroke DD contains a high level of Zinc and is NOT RECOMMENDED for use in GE or EMD locomotive diesel engines or other applications that utilize silver bearing materials.

TYPICAL PROPERTIES

SAE Grade	40
Viscosity @ 40°C (ASTM D445), cSt	135-145
Viscosity @ 100°C (ASTM D445), cSt	13.5-15.5
Viscosity Index (ASTM D2270)	102
Flash Point °C/°F (ASTM D92)	235°/455°
Fire Point °C/°F (ASTM D92)	246.11°/475°
Pour Point °C/°F (ASTM D97)	-23.3°/-10°
Sulfated Ash Content (ASTM D874), % wt	<1.0
Total Base Number (ATM D2896)	10
Volatility (ASTM D2887), % Evaporative Loss	5.0
Copper Strip Corrosion Test (ASTM D130)	1a
Foam Test (ASTM D892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Sequence IV	0/0