



## Imperial Low Emission Heavy Duty Engine Oil

### Description:

- Imperial Low Emission Heavy-Duty 15W-40 is a high performance engine oil formulated for use in today's new low emission ULSD engines. It is also fully compatible with previous API service categories and engine models.
- Imperial Low Emission Heavy-Duty 15W-40 is manufactured using high quality hydro-cracked, high viscosity index base stocks and select additives providing superior soot dispersancy, thermal and oxidative stability, corrosion and valve train-wear protection, and will prevent the formation and accumulation of deposits and sludge.

### Typical Applications:

- Imperial Low Emission Heavy-Duty 15W-40 is acceptable for use in passenger cars, trucks and heavy equipment where the manufacturer recommends an API CJ-4/SM performance rating.
- Imperial Low Emission Heavy-Duty 15W-40 meets the following specification:  
API CJ-4, CI-4 Plus, CI-4, CH-4, SM, SL, SJ  
ACEA E-7  
Caterpillar ECF-3  
Cummins CES 20081  
Mercedes Benz 228.1, 228.3  
Detroit Diesel Power Guard 93K218  
MACK EO-N PP-07  
Volvo VDS-4

### Physical Properties:

<u>SAE Viscosity Grade</u>	<u>15W-40</u>
Viscosity, @40°C, cSt	125
Viscosity, @100°C, cSt	15.7
Viscosity Index	131
Flash Point (F), °C	(399) 204
Pour Point (F), °C	(-22) -30
TBN, ASTM D 2896	7.4
Sulfated Ash, wt %	0.83
Sulfur, wt %	0.30
Calcium, wt%	0.13
Phosphorus, wt %	0.11
Zinc, wt %	0.12

**“Success is in the Details”**