

# THRIVE® Synthetic Heavy Duty

## Premium Diesel Engine Oils



### Description

**THRIVE® Synthetic Heavy Duty Diesel Engine Oils** are high quality synthetic diesel engine oils engineered for use in on- and off-road diesel engines. These oils are formulated with synthetic base stocks and premium additives to help extend equipment life and improve productivity. They are formulated for use in a wide range of applications and operating environments including transport, construction, and agriculture.

**THRIVE® Synthetic Heavy Duty Diesel Engine Oils** are formulated with high TBN to effectively manage acids and enhance engine performance. These oils also employ a high dispersant/detergent additive package to minimize soot thickening.

**THRIVE® Synthetic Heavy Duty Diesel Engine Oils** are formulated for use in the following industry and equipment specifications:

- API CK-4, CJ-4, CI-4 Plus, CI-4, CF
- ACEA E7, E9
- MB 228.31
- Caterpillar EDF-3, ECF-2, ECF-1-a
- Cummins CES 20086, 20081
- Detroit Diesel DFS 93K2222, DDC 93K218, 93K215, 93K214
- JASO DH-2
- Mack EO-4.5, EO-O
- MAN 3275
- MTU Type 2.1, Type I & II
- Volvo VDS-4.5, VDS-4, VDS-3
- Renault RLD-4, RLD-3

### Features/Benefits

- Low Volatility limits Oil Consumption and Reduces Emissions
- Improved Oxidation Resistance and Cold Temperature Performance from Synthetic Base Oils
- High Levels of Dispersants Minimize Soot Thickening
- Shear Stability Enhances Viscosity Retention
- Seal Friendly to Prevent Leaks and Extend Seal Life

### Physical & Chemical Properties

Product Number	015	053
SAE Viscosity	5W-40	15W-40
Viscosity @ 100°C, cSt	15.3	15.4
Viscosity @ 40°C cSt	91.5	113.2
Viscosity Index	177	142
Flash Point, °C (°F)	224 (435)	240 (464)
Fire Point, °C (°F)	234 (453)	250 (482)
Pour Point, °C (°F)	-41 (-42)	-38(-36)
NOACK (wt loss)	9.8%	4.8%
Total Base Number (TBN)	10.0	10.0
Sulfated Ash (wt %)	1.00%	1.00%