

## Product Description

**Reliant™** is a new generation of diesel engine protection. Advances in diesel engine technology have escalated significantly from what existed a decade ago. Today's engines are substantially more powerful and efficient than once imagined. Changes made to achieve this have created more severe operating conditions that place new levels and types of stress on the engine oil. In response to this, the lubricant industry has adopted new performance standards, designated as API CK-4. Engine oils meeting this new standard must deliver increased levels of engine protection and oil durability that meet the needs of new engine designs while simultaneously providing a higher degree of protection for older model engines. Equipment manufacturers are adopting elevated standards at the same time to meet the specific needs of their engine designs.

## Product Features and Benefits

D-A Lubricant Company updated **Reliant™** products to respond to the new challenges of diesel engine protection. Formulated to robustly meet industry standards, **Reliant™** offers users a high degree of confidence that they are doing the right thing to keep their equipment working reliably. Compared to previous generations of products, **Reliant™** will deliver:

- Substantial engine durability improvements for long, reliable equipment life
- Enhanced resistance to oil breakdown to maintain flow properties and maximize drain interval potential
- Confidence of performance in both new and older vehicle models (backwards compatible)

Both viscosity profiles meet the full requirements for protection and performance. Always consult your owner's manual for proper oil viscosity and quality selection guidance.

- 15W40 - Traditional diesel engine oil viscosity profile
- 10W30 - For improved fuel efficiency and cold flow properties

## Typical Applications

**Reliant™** Diesel Engine Oils perform in a wide range of heavy-duty applications and in challenging operating environments found on- and off-road. The following industry and specific equipment manufacturer standards are approved and/or suitable for use.

## Approvals and Specifications

### Reliant™ 10W-30

#### API Approvals

API CK-4 (Backwards Compatible)

#### OEM Approvals

CAT ECF-3  
 DDC DFS 93K222  
 Ford WSS-M2C171-F1  
 Mack EOS-4.5  
 Renault RLD-4  
 Volvo VDS-4.5

#### Meets the Performance Requirements of:

Cummins CES 20086  
 MTU Type 2.1

### Reliant™ 15W-40

#### API Approvals

API CK-4 (Backwards Compatible)

#### OEM Approvals

CAT ECF-3  
 DDC DFS 93K222  
 Ford WSS-M2C171-F1  
 Mack EOS-4.5  
 Renault RLD-4  
 Volvo VDS-4.5

#### Meets the Performance Requirements of:

Cummins CES 20086  
 MTU Type 2.1

## Typical Properties

SAE Viscosity Grade	J300	10W-30	15W-40
Viscosity			
@ 100°C, cSt	ASTM D445	11.6	15.0
@ 40°C, cSt	ASTM D445	76.6	114.3
Viscosity Index	ASTM D2270	145	135
HTHS Viscosity, cP @150 °C (min)	ASTM D4683	3.5	4.1
Pour Point, °F (°C)	ASTM D97	-38 (-39)	-33 (-36)
Flash Point, °F (°C)	ASTM D92	432 (222)	439 (226)
Sulfated Ash, Weight %	ASTM D874	1.0	1.0
Total Base Number	ASTM D2896	9.5	9.3
CCS @ -20°C, cP	ASTM D5293	N/A	6180
CCS @ -25°C, cP	ASTM D5293	5460	N/A

### D-A Part Number:

Bulk	52191	52101
Tote – 330 Gal	52193	52103
Drum – 55 Gal	52192	52102
Bag-in-a-box – 6 Gal	52195	52105
Pail (Metal) – 5 Gal	N/A	52109
Pail (Plastic) – 5 Gal	52198	52108
Case – 4/1 Gal	52194	52104
Case – 12/1 Qt	52196	52106