



ROYAL 1® 15W-40 CK-4, CJ-4, CI-4 Synthetic Blend Motor Oil

TECHNICAL PRODUCT INFORMATION

ROYAL 1® 15W-40 CK-4, CJ-4, CI-4 Synthetic Blend Motor Oil

ROYAL 1® 15W-40 CK-4, CJ-4, CI-4 Synthetic Blend Motor Oil is a heavy-duty engine oil that meets or exceeds the service requirements of pre 2007 diesel engine manufacturers and older engines. It is also suitable for off highway applications.

FEATURES/ BENEFITS

ROYAL 1® 15W-40 CK-4, CJ-4, CI-4 Synthetic Blend Motor Oil

- Meets performance requirements of pre 2007 high performance, low emission diesel engines while providing good performance in older engines allowing operators use of one oil for many engines.
- Provides wear protection, deposit and viscosity control and oxidation resistance.
- Provides protection and durability demonstrated in control of valve train wear and piston ring and liner wear, helping to prolong engine life.
- Maintains engine cleanliness with good soot control and exclusive detergent system.
- Good low temperature flow properties helps speed cold starts.
- Demonstrated performance reserve throughout the oil drain interval for protection and lubrication
- Good shear stability for viscosity control

APPLICATIONS

ROYAL 1® 15W-40 CK-4, CJ-4, CI-4 Synthetic Blend Motor Oil is recommended for

- Engines calling for CK-4, CJ-4, CI-4
- Meets needs of pre 2007 4 stroke cycle engines in fleets
- Satisfies requirements for naturally aspirated and turbo-charged engines
- Compatible with engines, exhaust gas recirculation,
- Meets needs of the older engines in on-highway service
- Satisfies off highway engines calling for multi-grade engine oils
- Works well with both on and off highway diesel fuels
- May be used as Cat TO-2 transmission fluid

RECOMMENDATIONS/SPECIFICATIONS

ROYAL 1® 15W-40 CI-4+/SN PLUS Synthetic Blend Motor Oil

Suitable for use where the following API Classifications are called for:
API Service Categories CK-4, CJ-4, CI-4

SPECIAL HANDLING, NOTICES OR WARNINGS

Use the care and handling used for petroleum products





ROYAL¹

TYPICAL TEST INFORMATION

Grado SAE	15W-40
Número de Producto	222290
Número SDS	
EE. UU.	42671
México	43552
Colombia	43918
El Salvador	43919
Densidad a 15°C, kg/L	0,877
Viscosidad, Cinemática mm ² /s a 40°C mm ² /s a 100°C	112 14,7
Viscosidad, Arranque en Frío, °C/mPa.s	-20/5800
Viscosidad, MRV, °C/mPa.s	-25/19.400
Viscosidad, HTHS, mPa.s	4.2
Índice de Viscosidad	135
Punto de Inflamación, °C(°F)	230(446)
Punto de Ecurrimiento, °C(°F)	-46(-51)
Ceniza Sulfatada, masa %	0,98
Número Base, mgKOH/g, ASTM D2896	10,3
Fósforo, masa %	0,076
Azufre, masa %	0,27
Zinc, masa %	0,082

El aceite Delo® 400 SDE SAE 15W-40 es recomienda para:

- **Categorías de Servicio API** CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, SM
- **ACEA** E9
- **Caterpillar** ECF-3
- **Cummins** CES 20086
- **Especificación de Fluidos Detroit (DFS)** 93K222
- **DEUTZ** DQC III-10 LA
- **JASO** DH-2
- **Mack** EOS 4.5
- **MAN** M 3575
- **MB** 228.31

PRESENTATIONS:

- 5 QUARTZ
- 5 GALLON
- 55 GALLON
- 275 GALLON (TOTE)

