



## FRANKOL API CI-4/SM

### PRODUCT DESCRIPTION:

FRANKOL 20W-50 CI-4/SM is a high-performance diesel engine oil that provides excellent lubrication to diesel engines. It maximizes performance in the latest US, European and Japanese heavy-duty diesel engines including severe applications such as high loads and multi trailer applications. It exhibits outstanding detergent, dispersant and anti-wear properties to keep the engine clean and enable efficient control of soot, sludge and piston deposits.

### APPLICATION:

FRANKOL 20W-50 CI-4/SM is recommended for modern heavy-duty engines, wide range of turbo-charged and naturally aspirated diesel engines as well as all kinds of gasoline engines, all types of generators, trucks, construction machinery, passenger cars or mixed fleet comprising diesel and gasoline powered cars.

### FEATURES & BENEFITS:

- High thermal and oxidation stability
- Reduced sludge build-up, deposits and viscosity increase
- Stay-in-grade shear stability
- Excellent low temperature properties
- Wear protection and viscosity control
- Improved viscosity control and oil pumpability

### PERFORMANCE LEVELS: Meets and Exceeds:

- API CI-4/SM
- ACEA E7, A3/B3/B4
- MB 229.1
- Volvo VDS-3
- MTU Type 2
- Allison C4
- Caterpillar ECF 1a, ECF 2

### TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	FRANKOL 15W40 CI-4/SM
Grade			15W-40
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	174.1
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	20.2
Viscosity Index (min)	ASTM D-2270	-	135
SP. Gravity @15°C/ 60°F	ASTM D-4052	g/cm³	0.884
Flash Point (min)	ASTM D-92	°C	234
Pour Point (max)	ASTM D-97	°C	-27
TBN	ASTM D-2896	Mg KOH/g	11.0

### HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website Frankol.net

