



## KRAFTIG ULTRA

### SEMI SYNTHETIC

#### PRODUCT DESCRIPTION:

KRAFTIG ULTRA Semi Synthetic is a heavy-duty engine oil that provides excellent lubrication in today's diesel and gasoline engines operating in severe applications. It is designed using the high performance base oils which provide excellent low temperature fluidity, high temperature viscosity retention and volatility control. KRAFTIG ULTRA is engineered to provide a strong foundation for oxidation resistance, soot handling, and wear control. It provides excellent piston deposit protection and reduced sludge formation to help provide long engine life.

#### APPLICATION:

KRAFTIG ULTRA Semi Synthetic provides demonstrated protection and performance in the latest high power heavy duty diesel engines from Europe, US, and Japanese manufactureres in both on-highway and off-highway applications. It is suitable for modern low emission engines meeting Euro 2, 3 and US 2002 emission requirements.

#### FEATURES & BENEFITS:

- Increased thermal and oxidation stability
- Reduced sludge build-up, deposits and extended engine life
- Improved corrosion protection and advanced piston deposit control
- Advanced soot handling to control viscosity increase and sludge build up
- Enhanced low temperature pumpability

#### PERFORMANCE LEVELS: Meets or Exceeds:

- AAPI CI-4/SL
- ACEA E7, A3/B3/B4
- MB 228.3 / 229.1
- MAN M3275-1
- Volvo VDS-3
- Deutz DQC III-10
- JASO DH1
- MACK EO-N
- Cummins CES 20076/20077/78
- Global DH0-1
- Renault RLD-2
- MTU Type 2
- Allison C4
- Caterpillar ECF 1a, ECF 2
- DDC 93K215

#### TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	KRAFTIG ULTRA (SEMI SYNTHETIC)	
Grade			10W-30	10W-40
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	74.15	102
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	11.75	15.1
Viscosity Index (min)	ASTM D-2270	-	154	156
SP. Gravity @15°C/ 60°F	ASTM D-4052	g/cm <sup>3</sup>	0.875	0.876
Flash Point (min)	ASTM D-92	°C	236	234
Pour Point (max)	ASTM D-97	°C	-39	-39
TBN	ASTM D-2896	Mg KOH/g	11	11
CCS, (°C)	ASTM D-5293	m.Pa.S	<7000 (-25°C)	<7000 (-25°C)

#### 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 Runol.net

