



## KRAFTIG CR 9

### SEMI SYNTHETIC

#### PRODUCT DESCRIPTION:

KRAFTIG CR 9 semi synthetic is heavy duty diesel engine oil which helps to protect against the build-up of piston deposits for continuing engine efficiency. Exceeds performance limits in piston ring, cylinder liner and valve train wear tests for long engine life.

#### APPLICATION:

These heavy duty engine oils are recommended for all types of diesel and gasoline engines where the manufacturer specifies the API service CH-4/SJ. They are especially suited for use in low temperature environments where extreme pumpability properties are required. These Oils are also suitable for on-road and off-road applications, including equipment that are exposed to extreme low temperature operations. This oil is suitable for use in moderate to high sulfur content fuel.

#### FEATURES & BENEFITS:

- Improved oxidation stability to minimize deposit formation
- Higher TBN to extend protection from acids caused by combustion
- Better protection against valve train wear
- Improved low temperature performance
- Potential fuel economy improvement compared to conventional CH-4 heavy duty engine oils

#### PERFORMANCE LEVELS: Meets or Exceeds:

- API CH-4/SJ
- MB 228.3
- MAN 3275
- ACEA E7, A3/B3/B4
- VOLVO VDS-2
- Renault RLD-2
- MTU Type 2
- JASO DH1
- Mack EO-M/EO-L
- Cummins CES 20076
- DFS 93K215
- DQC III-10

#### TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	KRAFTIG CR 9 (SEMI SYNTHETIC)	
			10W-30	10W-40
Grade			10W-30	10W-40
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	74.15	104.1
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	11.75	15.4
Viscosity Index (min)	ASTM D-2270	-	154	157
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	10.5	10.5
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

