

# QUAKER STATE® FCI® HDX PLUS 20W-50

## HEAVY-DUTY DIESEL ENGINE OIL

### TECHNICAL DATA SHEET



QUAKER STATE® FCI® HDX PLUS ENGINE OIL is a premium quality, heavy-duty engine oil blend of petroleum base oils and advanced technology additives. It provides good wear protection in severe diesel engine operating environments.

QUAKER STATE® FCI® HDX PLUS ENGINE OIL meets the API performance and engine manufacturer requirements as given below and is designed to provide engine cleanliness and deposit control in both low temperature (multigrade) and in high speed, high temperature operation.

#### PERFORMANCE, FEATURES & BENEFITS

- Helps minimize piston deposits and helps keep engines clean
- Helps control soot, sludge and varnish
- Helps control bearing corrosion
- Good thermal stability enables extended oil drain intervals in conjunction with a used oil analysis program
- Helps reduce engine wear to increase engine life
- Excellent cold cranking capabilities

#### MAIN APPLICATIONS

- QUAKER STATE® FCI® HDX PLUS ENGINE OIL is recommended for use in heavy-duty 4-cycle diesel engines, specifying the use of an oil of API CF quality.

#### TYPICAL PHYSICAL CHARACTERISTICS

Properties	Method	Quaker State® FCI® HDX Plus 20W-50
SAE Grade		20W-50
API Gravity	ASTM D287	28.8
Viscosity @100°C cSt	ASTM D445	19.3
Flash Point COC °C	ASTM D92	410
Pour Point °C maximum	ASTM D97	-18
CCS Viscosity @ Temp (Max) @-15°C cP maximum	ASTM D5293	9 500
Low Temp Pumping Viscosity @-20°C cP maximum	ASTM D4684	60 000

These characteristics are typical of current production. While future production will conform to Quaker State's® specification, variations in these characteristics may occur.

#### SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

QUAKER STATE® FCI® HDX PLUS ENGINE OIL meets the requirements of:

- API CF

For a full listing of equipment approvals and recommendations, please consult your local Technical Helpdesk.

To find the right Quaker State® product for your vehicles and equipment, please consult [www.quakerstate.com](http://www.quakerstate.com) to look-up the right motor oil recommendation using our oil selector.

# QUAKER STATE® FCI® HDX PLUS 20W-50 HEAVY-

## DUTY DIESEL ENGINE OIL

### HEALTH, SAFETY & ENVIRONMENT

- Health and Safety

Quaker State® FCI® HDX Plus 20W-50 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <http://www.epc.shell.com>

- Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

### ADDITIONAL INFORMATION

- Advice

Advice on applications not covered here may be obtained from your Shell representative.