

QUAKER STATE UNIVERSAL HDX ENGINE OIL 15W-40

HIGH QUALITY HEAVY DUTY DIESEL ENGINE OIL

TECHNICAL DATA SHEET



QUAKER STATE® UNIVERSAL HDX ENGINE OILS are high quality fleet motor oils for use in diesel engines and 4-cycle gasoline engines. They are designed primarily for use in today's high output, high performance heavy-duty diesel engines, while still meeting the requirements of 4-cycle automotive gasoline engines.

QUAKER STATE® UNIVERSAL HDX ENGINE OILS are formulated with select base stocks and advanced technology detergent, dispersant, anti-wear and anti-corrosion additives and are designed to provide excellent performance even in diesel engines equipped with Exhaust Gas Recirculation (EGR). These oils exceed the API and engine manufacturer performance requirements as given below.

QUAKER STATE® UNIVERSAL HDX ENGINE OILS provide excellent performance and protection in low temperature operation (multigrades) as well as high speed, high temperature operation.

PERFORMANCE, FEATURES & BENEFITS

- Formulated for mixed fleet applications
- Helps minimize piston deposits
- Excellent bearing corrosion control
- Protects new EGR diesel engines designed to meet today's low emission specifications
- Excellent cold cranking capabilities
- Helps reduce engine wear to help increase engine life
- Outstanding high temperature protection

MAIN APPLICATIONS

QUAKER STATE® UNIVERSAL HDX ENGINE OILS are recommended for use in heavy duty naturally aspirated and turbocharged 2-cycle and 4-cycle diesel engines (including engines equipped with Exhaust Gas Recirculation (EGR)) used in mobile and stationary service, as well as in modern 4-cycle automotive gasoline engines.

SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

It meet or exceed the requirements of the following industry, military and equipment builder specifications:

- API CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-4, CF/ SM, SL, SJ
- ACEA E7*
- Caterpillar ECF-3, ECF-2
- Cummins CES 20081*
- Detroit Diesel 93K218* , 7SE270*
- Deutz DQC III-05*
- Mack EO-O Premium Plus 2007
- MAN M3275*
- Mercedes-Benz 228.3*, 228.31*
- MTU Category 2*
- Volvo VDS-4*

* SAE 15W-40 only

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 to look up

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the right motor oil recommendation using our oil selector.

TYPICAL PHYSICAL CHARACTERISTICS

Properties		Method	Quaker State Universal HDX Engine Oil 15W-40
API Gravity		ASTM D287	29.1
Kinematic Viscosity	@40°C mm ² /s	ASTM D445	118
Kinematic Viscosity	@100°C mm ² /s	ASTM D445	15.8
Viscosity Index		ASTM D2270	137
Flash Point	°C	ASTM D92	225
Pour Point	°C	ASTM D97	-33

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

HEALTH, SAFETY & ENVIRONMENT

Health and Safety

This product 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 your Quaker State[®] Lubricants distributor representatives or technical help desks.

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 Quaker State[®] Lubricants distributor representatives or technical helpdesks.