

## Q8 City Bus Engine Oil 15W-50

Heavy-duty engine oil API CK-4

### Description

Q8 City Bus Engine Oil 15W-50 is a super high performance diesel engine lubricant designed for lubrication of low emission engines. It offers excellent bio-diesel compatibility properties for easy starting during low temperatures and excellent anti-wear performance to extend engine bearing life during start-stop city use.

### Applications

Specially developed formulation for Hybrid City Buses running on bio-diesel for engines requiring combined API CK-4

### Benefits

- Excellent engine protection after cold start.
- Outstanding bio-fuel compatibility.
- Superb catalytic after treatment system (SCR) protection.
- Excellent protection against piston rings deposits.
- Excellent combustion chamber cleanliness due to low sulphated ash level.

### Specifications, recommendations and approvals

|                |               |         |                      |
|----------------|---------------|---------|----------------------|
| API            | CK-4          | Ford    | M2C171-F1            |
| Allison        | TES-439       | JASO    | DH-2                 |
| Caterpillar    | ECF-2         | MB      | 228.31 (DTFR 15C100) |
| Caterpillar    | ECF-3         | MTU     | Type 2.1             |
| Cummins        | CES 20086     | Mack    | EO-S 4.5             |
| Detroit Diesel | DFS 93K218    | Renault | RLD-4                |
| Detroit Diesel | DFS 93K222    | Volvo   | VDS-4.5              |
| Deutz          | DQC III-10 LA |         |                      |

### Properties

|                                | Method | Unit               | Typical    |
|--------------------------------|--------|--------------------|------------|
| Density, 15 °C                 | D 4052 | g/ml               | 0,89       |
| Viscosity Grade                | -      | -                  | SAE 15W-50 |
| Kinematic Viscosity, 40 °C     | D 445  | mm <sup>2</sup> /s | 126        |
| Kinematic Viscosity, 100 °C    | D 445  | mm <sup>2</sup> /s | 17.3       |
| Viscosity Index                | D 2270 | -                  | 149        |
| Total Base Number              | D 2896 | mg KOH/g           | 10         |
| Pour Point                     | D 97   | °C                 | -30        |
| Flash Point, P-M               | D 93   | °C                 | 212        |
| Sulfated Ash                   | D 874  | % mass             | 1.0        |
| Borderline Pumping Temperature | D 3829 | °C                 | -24        |

The figures above are not a specification. They are typical figures obtained within production tolerances.