



## Technical Data Sheet

- Low Emissions
- Maintenance Saving

# Shell HD5 Fleet 10W-40

## Heavy Duty Diesel Engine Oil

Low-SAPS HDDEO, especially designed for on-road, heavy-duty applications with focus on European OEM requirements up to Euro 6 engine technology

Protective power enhances oil performance to deliver responsive protection, resulting in maintenance saving and long oil drain capability.

### Performance, Features & Benefits

- **Emissions system capability**

Advanced low-ash formulation helps control blocking of or poisoning of exhaust after-treatment devices, helping maintain vehicle emission compliance and engine fuel efficiency.

- **Maintenance saving**

Shell HD5 Fleet has been formulated to meet the long oil drain requirements of Mercedes-Benz to allow operators to optimize maintenance scheduling.

- **Improved engine cleanliness**

The advanced formulation delivers good engine cleanliness and protection against piston deposits allowing Shell HD5 Fleet to ensure engine and component reliability at extended oil drain intervals.

- **European heavy duty engines**

Shell HD5 Fleet provides protection and performance in modern high power heavy duty diesel engines from leading European engine makers such as Mercedes-Benz and where oils meeting ACEA E6 are called for.

- **Low emission engine use**

Shell HD5 Fleet meets the requirements of Mercedes-Benz and other manufacturers for modern engine applications.

### Specifications, Approvals & Recommendations

- ACEA E6
- MB-Approval 228.51
- Meets requirements of DAF (meets ACEA E6)

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

### Main Applications



### Typical Physical Characteristics

| Properties          |          |                    | Method     | Shell HD5 Fleet 10W-40 CI-4 |
|---------------------|----------|--------------------|------------|-----------------------------|
| Kinematic Viscosity | @40°C    | mm <sup>2</sup> /s | ASTM D445  | 98.8                        |
| Kinematic Viscosity | @100°C   | mm <sup>2</sup> /s | ASTM D445  | 14.5                        |
| Dynamic Viscosity   | @-25°C   | mPa s              | ASTM D5293 | 6 133                       |
| Viscosity Index     |          |                    | ASTM D2270 | 152                         |
| Total Base Number   | mg KOH/g |                    | ASTM D2896 | 10.4                        |
| Sulphated Ash       | %        |                    | ASTM D874  | 1.0                         |
| Density             | @15°C    | kg/l               | ASTM D4052 | 0.866                       |
| Flash Point (COC)   | °C       |                    | ASTM D92   | 232                         |
| Pour Point          | °C       |                    | ASTM D97   | -42                         |

These characteristics are typical of current production. Whilst future production will conform to Shell's specification,

variations in these characteristics may occur.

## Health, Safety & Environment

- **Health and Safety**

Shell HD5 Fleet 10W-40 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 <https://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.