

## Technical Data Sheet (TDS)

### HDDEO

SAE 10W-30, CF-4/SJ

Semi Synthetic

**HDDEO** is a high performance, diesel engine oil specifically formulated to address the needs of high power engines. Featuring an active-detergent system to keep pistons and other engine parts clean, thus it provides protection against wear for long engine life and protection against deposits for efficient engine performance. These are diesel engine oils specially designed to meet the requirements of engines produced by all manufactures in US, Europe and Japan.

### APPLICATION

Recommended for wide range of turbo-charged or naturally aspirated diesel engines, generators, trucks, construction cars, passenger cars or mixed car group comprising diesel and gasoline cars. It is also recommended for automotive diesel engine of passenger cars and light commercial vehicles where the OEM recommends API CF-4 or earlier specification.

### FEATURES & BENEFITS

- Fuel saving and reduces maintenance expenses for machines and engines.
- Very long oil changing period.
- Resists oil thickening and the formation of carbon, varnish and sludge deposits. Good viscosity control.
- Prolonged engine life.

### PERFORMANCE STANDARDS

- API CF-4/SJ
- MB 228.2
- ACEA E2-96 A3/B3
- MTV TYPE-2
- MAN 3275
- CES 20075/74/73

### TYPICAL PROPERTIES

| PARAMETERS                          | ASTM  | UNIT              | HDDEO 10W-30  |
|-------------------------------------|-------|-------------------|---------------|
| Kinematic Viscosity @ 104°F / 40°C  | D7042 | cSt               | 74.15         |
| Kinematic Viscosity @ 212°F / 100°C | D7042 | cSt               | 11.75         |
| Viscosity Index (min)               | D2270 | -                 | 154           |
| Density @ 15°C / 60°F               | D4052 | g/cm <sup>3</sup> | 0.875         |
| Flash Point (min)                   | D92   | °C                | 236           |
| Pour Point(max)                     | D97   | °C                | -39           |
| TBN                                 | D2896 | mgKOH/g           | 9             |
| CCS                                 | D5293 | m.Pa.S            | <7000 (-25°C) |

### HEALTH & SAFETY, ENVIORMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil into drains or the enviornment. Dispose to an authorized used oil collection point. For further information on Safety Guidelines please refer to MSDS on our wevbsite: [www.fubex.net](http://www.fubex.net)

### HEALTH & SAFETY:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontal to avoid the possible ingress of water and damage to drum markings. products should never be stored above 60°C, or exposed to hot sun or freezing conditions.

### PROTECT THE ENVIRONMENT

Take used oil to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.