



## **HDDEO MONO**

*Lubricants for commercial vehicles*

### **Product Description:**

Monograde oils of high performance, formulated with high quality base oils and multifunctional additives that ensure full protection of the engines even under severe operating conditions. Indicated for the use in diesel and gasoline engines and supercharged not.

### **Features and Benefits:**

Easy cold start using winter shades.

Reduced oil consumption and maximum engine protection even at high operating temperatures by using higher viscosity grades.

Control of Bore Polishing (polishing cylinder mirror) in turbocharged engines.

High anti-wear against the surfaces of the parts subjected to high loads and sliding, as piston rings, camshafts and timing gears.

Maximum cleaning of elastic bands and relative seats, of pistons, turbines and support bearings.

Reduction of carbon formation, sludge and varnish.

### **Specifications and Approval:**

Exceeds requirements:

**SAE 10W: API CF, CAT. TO-2, MB 228.0**

**SAE 30/40: API CF/SG, ACEA E2, MTU TYPE 1, CAT. TO-2, MB 228.0, MAN M270**

**SAE 50: API CF/SG, ACEA E1, MB 228.0**

**SAE 60: API CF/SG, ACEA E1**

### **Typical properties:**

### **LUBLAN HDDEO MONO**

SAE Grade	10W	30	40	50	60
Viscosity ASTM D-445					
cSt @ 40°C	36,2 – 41,2	90,8 – 101,7	138 – 145	186 – 201	335 - 356
cSt @ 100°C	5,8 – 6,7	10,1 – 12,1	13,3 – 14,9	17,5 – 18,7	23,9 – 25,3
Viscosity Index ASTM D-2270	116	112	104	102	100
Pour Point, °C, ASTM D-97	-27	-23	-23	-23	-23
Flash Point, °C, ASTM D-92	232	248	250	255	255
Density @ 15°C, Kg/l, ASTM D-1298	≥0,875	≥0,880	≥0,885	≥0,890	≥0,890

### **Health and Safety:**

The data related to health, safety and environmental protection are provided in the material safety data sheets.

*The above figures are those relating to normal manufacturing tolerances and do not constitute a specification.*

*Series HDDEO MONO Date Created: 18/01/2013 Last Edit: 17/05/2019*

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