



## **MachPower Professional CI-4 10w40**

### **High Performance Heavy Duty Diesel Engine Oil**

#### **Description**

It is a diesel engine oil of product of state of art technology with a long service life, equivalent to SHPD (Super High Performance Diesel Engine Oil), meeting all properties required for a 4-cycle diesel engines with high engine speeds.

#### **Application**

It is recommended mainly for all heavy-duty vehicles, construction equipment and highway fleet equipped with 4-cycle diesel engines. It is successfully used in generator engines

#### **Benefits**

- \*Avoids wears and tears during start-ups
- \*It extends the oil replacement intervals
- \*It promotes the combustion efficiency and the engine output by keeping the engine clean
- \*It prevents the engine using fuel with high sulfur content, thanks to its high TBN properties.
- \*It can be safely used in all engines with/without turbocharger by preventing wear at high speed and temperatures.
- \*It prevents planing of the cylinder inner surfaces.
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- \*It prevents planing of the cylinder inner surfaces.
- \*It completely neutralizes the acids formed even during combustion of high sulfur content fuels.
- \*It lowers the spare part and operation costs.



### Performance

API CI-4/CH-4

ACEA E7/E5/E3/B4/B3/A3

MB 228.3, 228,5 MAN 3275

MTU TYPE 2, VOLVO VDS3

RENAULT RVI RLD-2

Mack EO-M Plus

Allison C-4, CAT ECF-2, ECF-1-a

Cummins CES 20076/77/78

### Typical Specifications\*

SAE Viscosity Grade		MachPower Professional CI-4 10w40
Density, @ 15°C kg/m <sup>3</sup>	ASTM 4052	0,880
Flash Point , COC, °C	ASTM D 92	Min.230
Kinematic Viscosity 40°C mm <sup>2</sup> /s 100°C mm <sup>2</sup> /s	ASTM D 445	109,75 14,6
Total Base Number, mgKOH/g	ASTM D 2896	Min. 14,0
Viscosity Index	ASTM D 2270	Min. 140
Pour Point, °C	ASTM D 97	Max. -32
Cold Cranking Viscosity (CCS) , mPa-s		5,375
Borderline pumping viscosity (MRV) , mPa-s		29,207 (at -30°C)
Sulphated ash , %		Max. 1,4
Noack evaporation loss , %		10,2

\*Values are changeable according to production.