

# Diesel Engine 8V 199

for Medium Military Vehicles,

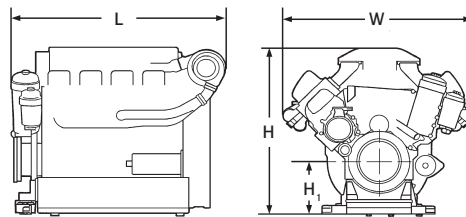
530 kW (721 mHP), 600 kW (816 mHP) at 2300 1/min



## Dimensions and Masses

8V 199	Dimensions (LxWxH; H <sub>i</sub> ) mm (in)	Mass, dry kg (lbs) ①
<b>TE20/21</b>	1179 x 1067 x 963; 319 (46 x 42 x 38; 13)	1272 (2804)

① In accordance with DIN70020-G, incl. starter and cabling.



Engine version	8V 199 TE20	8V 199 TE21	
Bore/stroke	mm (in)	130/150 (5.1/5.9)	130/150 (5.1/5.9)
Displacement, cylinder	l (cu in)	1.99 (121.4)	1.99 (121.4)
Displacement, total	l (cu in)	15.9 (972)	15.9 (972)
Charging method	Turbocharged	Turbocharged	
Intercooling	Charge-air cooler	Charge-air cooler	
Number of cylinders	8 cylinders, V, 90°	8 cylinders, V, 90°	
Cooling method	Liquid cooled	Liquid cooled	
Injection method	Pump-line-nozzle, direct injection	Pump-line-nozzle, direct injection	
Starting method	Electric	Electric	
Lube oil system	Dry sump (optional wet sump)	Dry sump (optional wet sump)	
Max. torque	Nm (ft lbs)	2700 (1991)	3000 (2212)
Rated power	kW (hp)	530 (721)	600 (816)
Rated speed	rpm	2300	2300



Power. Passion. Partnership.

**Fuels**

- Standard	F-54	According to fluids and lubricants specification AL01061
- Alternatives	F-34, F-63	According to fluids and lubricants specification AL01061

Other fuel types to be checked for compliance.

**Lube oils**

- Standard	O-236, O-1178 and further engine oils according to fluids and lubricants specification AL01061	
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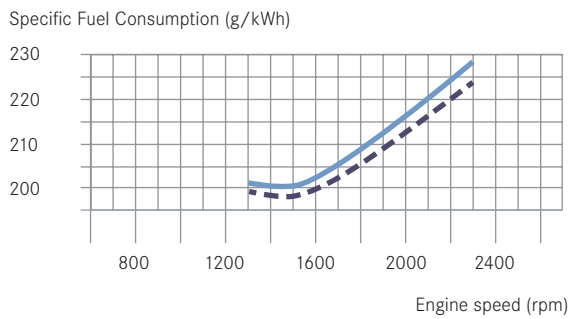
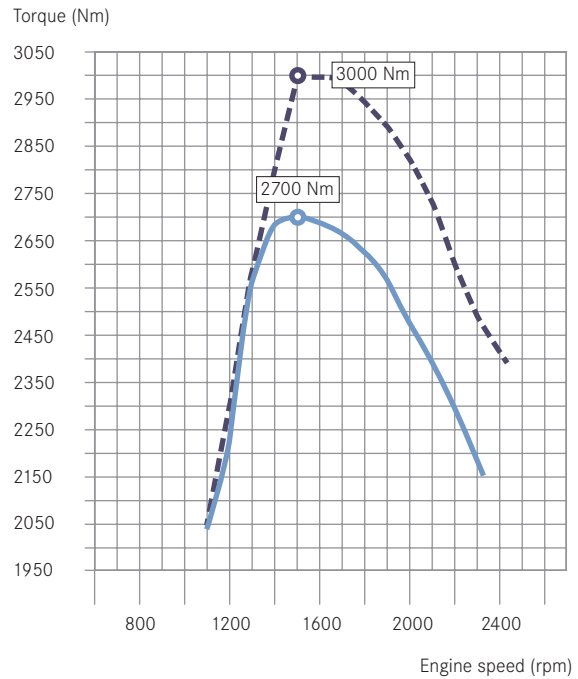
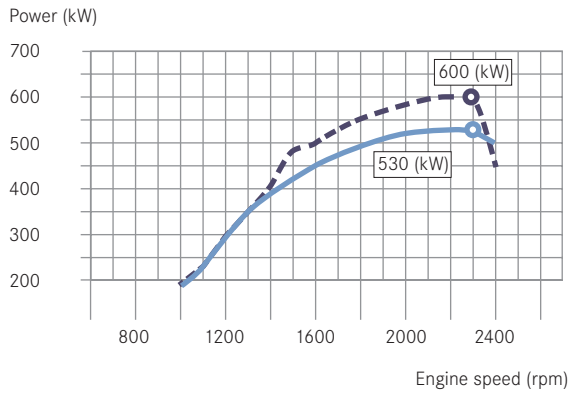
Other oil types to be checked for compliance.

Direction of rotation	Counterclockwise
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Additional information on request.

**Power ratings definition:** In accordance with ISO1585. Fan power not considered. Power and fuel consumption data assumes operation on standard fuel.  
**Inclinations** Longitudinal  $\geq 31^\circ$  / transverse  $\geq 22^\circ$   
**Environmental conditions:** Engines can be operated in ambient conditions from  $-46^\circ\text{C}^*$  to  $55^\circ\text{C}$ .  
 \*special start preparation required

**Engine Curves**



--- 600 kW (820 hp)  
 — 530 kW (720 hp)