



# TAD720VE

## Optional equipment

### Engine

- Intermittent and Continuous power settings Tier 2 or EU stage 2 compliance
- SAE 3 Flywheel housing
- Flywheel for clutch SAE 8", 10" and 11 1/2"
- Flywheel for Clark, ZF, and Allison transmissions

### Lubrication system

- Deep front oil sump
- Oil dipstick in front, flexible type
- Remote oil filter
- Oilfilling on top and/or crankcase

### Fuel system

- Fuel prefilter, heavy duty
- Handpump

### Intake and exhaust system

- Low or high turbo-charger
- Exhaust to front or rear
- Electric or mechanical air restriction indicator, 50mbar

### Cooling system

- Fan on separate bracket 210 to 398mm above crankshaft
- Fan on coolant pump
- Fan on crankshaft
- Fan ratio 1:1 - 1,26:1
- Suction or pusher type fans Ø470- 700mm
- 2 fixed fan hubs, and 2 viscous type hubs.

### Control system

- 12V/24V Electrical stop, energized to run or to stop
- VDO-E-Gas
- ECU with high altitude sensor

### Electrical system

- Alternator, 28V / 55-80A high right or 28V / 55-140A low left
- Alternator, 14V / 95A high right or low left
- Starter motor, 24V / 5.5kW
- Starter motor, 12V / 3.1kW
- Speed sender, hourmeter, oilpressure sender and switch
- Extension cable 2.5m or 5m, engine to ECU

### Miscellaneous

- Driving parts for hydr. pump on PTO A, B or C
- Hydr. pump on PTO B, 16cm<sup>3</sup>
- Coolant preheater
- Air compressor, 150cm<sup>3</sup>, 300cm<sup>3</sup> or 600cm<sup>3</sup>

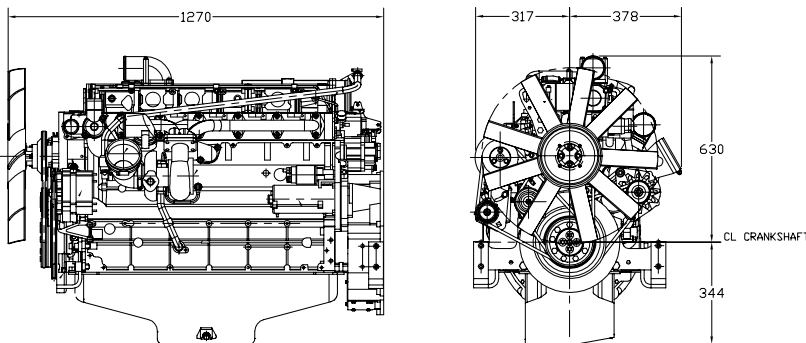
## Technical Data

Engine designation .....	<b>TAD720VE</b>
IFN Power at 2300rpm. kW (hp) .....	174 (237)
ICFN Power at 2300rpm. kW (hp) .....	157 (214)
Torque at 1400rpm. Nm (lbf ft) .....	854 (630)
Displacement, l (in <sup>3</sup> ) .....	7.15 (436)
Number of cylinders .....	6
Bore/stroke, mm (in.) .....	108/130 (4.25/5.12)
Compression ratio, EU Stage 2 / EPA Tier 2 .....	19.0:1 / 18.4:1
Dry weight, kg (lb) .....	680 (1500)

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. The technical data applies to an engine without cooling fan and operating on a fuel with calorific value of 42.7 MJ/kg (18360 BTU/lb) and a density of 0.84 kg/litre (7.01 lb/US gal, 8.42 lb/Imp gal), also where this involves a deviation from the standards.

## Dimensions TAD720VE

Not for installation



Note! Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice. The engine illustrated may not be entirely identical to production standard engines.

### Power Standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. The technical data applies to an engine without cooling fan and operating on a fuel with calorific value of 42.7 MJ/kg (18360 BTU/lb) and a density of 0.84 kg/litre (7.01 lb/US gal, 8.42 lb/Imp gal), also where this involves a deviation from the standards.

### Rating Guideline

IFN Power rating corresponds to ISO Overload Power. It is intended for applications where intermittent power is utilized less than 1 hour within any period of 12 hours of continuous operation. The average load factor must not exceed the continuous rating.

ICFN Power rating corresponds to ISO Standard Power for continuous operation. It is intended for constant load applications with uninterrupted service at full load for extended periods of time.

### Derating

The engine may be operated up to 1000 m altitude and 40°C ambient air temperature without derating. For operation at higher altitudes and temperatures the power should be derated according to the following factors:

Altitude derating factor < 3000 m	4 % / 500 m
Altitude derating factor > 3000 m	6 % / 500 m
Ambient temperature derating factor	2 % / 5 °C
Humidity	No derating

