

Phaser 10 T Truck Engine



Phaser[®]



81 MAY 1998

Perkins Truck Power

104 PS 2600 Rpm

PHASER TDC, LTD. PFI.

Yeni Nesil Motorlar ve Enerji Sistemleri
PFI, Türkiye'nin En İyi Motor ve Enerji Sistemleri

Motor Özellikleri Genel Bilgiler

Yanma Çipi: 4 Silindirli 1000 cc / 1200 cc / 1400 cc

Yapısal: 4 Silindirli (2 Silindirli)

Yanma: 4 Silindirli

Yanma Sistemi: 4 Silindirli

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79 kW/106 bhp
76.5 kW/104 PS

Phaser

Phaser[®]

This new intercooled turbo-4-cylinder unit offers 4-cylinder performance from a compact package.

Reliability and Durability

A genuine specification relating to continuous in-cylinder lubricity is working to ensure the high-performance crank engine.

- Deep-skirt composite optimized cylinderhead
- High-speed low-friction timing gears
- Cast-iron expansion joint
- Engine-to-transmission mounts
- Engine-to-frame anti-vibration attachment
- Oil drain water pump
- Relaxed manufacturing process
- Slime technology
- 24-valve design
- High-capacity
- Full-crankshaft stroke



120 Bhp 2600 Rpm

General Data

Model: Phaser 120 TI
 No. of cylinders: 4
 Cyl. arrangement: In-line
 Cyl. bore: 86 mm
 Stroke: 100 mm
 Displacement: 4.26 l
 Compression ratio: 16.5:1
 Max. speed: 2600 rpm
 Max. power: 89.5 kW (120 bhp)
 Max. torque: 260 Nm
 Max. fuel consumption: 24.5 l/h
 Max. oil consumption: 0.5 l/h
 Max. coolant consumption: 1.5 l/h
 Max. water consumption: 1.5 l/h
 Max. air consumption: 12.5 m³/h
 Max. exhaust gas temperature: 450 °C
 Max. engine temperature: 100 °C
 Max. oil temperature: 100 °C
 Max. coolant temperature: 100 °C
 Max. water temperature: 100 °C
 Max. air temperature: 100 °C
 Max. exhaust gas temperature: 450 °C

Max. engine speed: 2600 rpm
 Max. engine torque: 260 Nm
 Max. engine power: 89.5 kW
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89.5 kW/120 bhp
 86.5 kW/118 PS

 **Perkins**

Phaser 120 Ti Truck Engine



Maximum torque and power for the Phaser 120 Ti



Maximum torque and power for the Phaser 120 Ti

Performance and Economy

Phaser 120 Ti's wide torque band provides excellent low speed operating characteristics for demanding tasks. Performance, Durability, Reliability and Economy are enhanced by the Phaser 120 Ti's advanced turbocharger and the Phaser 120 Ti's advanced cooling system. At 2000 RPM, Phaser 120 Ti's maximum power output is 250 HP. Phaser 120 Ti's advanced cooling system is designed for long life and low operating costs.

Phaser



Perkins Truck Power

Perkins offers powerplants for trucks, vans and light commercial vehicles. The Phaser 120 Ti's advanced performance, performance reliability and excellent engine economy provide the best operating costs for your truck.

Perkins also offers advanced powerplants and features for medium and heavy trucks. Contact your nearest Perkins distributor for more information. The most high quality vehicles for your business are built with Perkins powerplants.

Perkins has a complete distribution network with over 1000 dealers. Contact your nearest Perkins distributor for more information. The most high quality vehicles for your business are built with Perkins powerplants.



Perkins

Perkins Powerplants
10000
10000
10000

Perkins Powerplants are available in many countries. Contact your nearest Perkins distributor for more information.

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Perkins

Phaser®

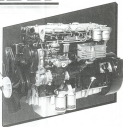
Designed for the highly successful MS 3500, the more powerful Phaser 160T is designed to bring better performance to light duty heavy trucks and equipment utilizing either 50 tonnes GVW trailers and semi-trailers or to 60 tonnes.

Reliability and Durability

Phaser 160T has a premium specification to ensure trouble-free operation under today's tough working conditions.

- Over-sized computer optimized cylinder block.
- Slings re-located to the cylinder head.
- Coated expansion piston.
- forged polyethylene oil skirt.
- forged chrome-plated steel connecting rod.
- low stress crankshaft.
- helical pinion main shaft.
- fully fully ventilating fanblade.
- integral plate cooler.
- oil sprayed piston.
- force distribution belt.

119 kW/160 bhp
116 kW/158 PS



General Data

700 61563 000

Model	Phaser 160T
Max. output (kW/PS)	119/160
Cylinder number	6
Stroke (mm)	140
Applications	Trucks
Construction system	Water-cooled
Compression ratio	16.5
Power (kW/PS)	119/160
Oil sump	20 litres
Dimensions	1880 x 1000 x 1200 mm
Performance	3000 rpm, 2600 rev/min
Weight (kg)	1250
Engine	Water-cooled
Speed	2600 rev/min
Stroke	140 mm
Cylinder number	6

Max. torque (kW/PS)	102/138
Weight (kg)	1250
Rated speed (rpm)	2600
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Perkins

118 PS 2600 Rpm

Phaser 160 T Truck Engine



Operating characteristics



Operating characteristics

Performance and Economy

The Phaser 160 T truck engine provides excellent performance and economy. High power and torque are available over the entire operating range. The Phaser 160 T truck engine is designed for maximum fuel economy and low maintenance costs. The Phaser 160 T truck engine is designed for maximum fuel economy and low maintenance costs. The Phaser 160 T truck engine is designed for maximum fuel economy and low maintenance costs.

phaser



Perkins Truck Power

Perkins truck power is the most powerful power source available. It's available in a wide range of sizes and configurations. It's available in a wide range of sizes and configurations. It's available in a wide range of sizes and configurations.

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Perkins

Perkins Power Systems

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PhaserTM

The most powerful engine of the Phaser range, this turbocharged inline six-cylinder unit is designed to make more profit for operators of rigs in 17' class OHS. It is also suitable for construction of up to 20 tonnes and is ideal for specialist work applications.

Reliability and Durability

Phaser 210T has a proven specification to ensure trouble-free operation under today's tough working conditions.

- Deep steel engine construction block
- Strong cast-iron head cylinder supports
- Cast-iron expansion joints
- Heavy duty bearings
- Strong aluminium crank bearings/mainshaft
- Cast aluminium pump
- Magnetically-charged turbo air filter
- Torsionally stiff mounting brackets
- Integral oil-water separator
- Oil separator/breather
- Overhaulability of parts



General Data

17' CLASS OHS

PERKINS ENGINE SPECIFICATIONS

Model	210T
Power (kW) (DIN)	155
Power (bhp) (DIN)	210
Rated speed (rpm)	1800
Rated torque (kNm)	12.3
Rated torque (lbf ft)	90.2
Rated torque (kg m)	1255
Rated torque (lb ft)	9138
Rated torque (hp ft)	130
Rated torque (kg cm)	12550
Rated torque (lb in)	91380
Rated torque (hp in)	1300
Rated torque (kg mm)	125500
Rated torque (lb mm)	913800
Rated torque (hp mm)	13000
Rated torque (kg cm)	12550
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Rated torque (kg mm)	125500
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155 kW/210 bhp
154.5 kW/210 PS



Perkins

Phaser 210 TI Truck Engine



1000 1500 2000 2500 3000 RPM

0 20 40 60 80 100 BHP

0 10 20 30 40 50 60 70 80 90 100 Liters per hour



1000 1500 2000 2500 3000 RPM

0 20 40 60 80 100 BHP

0 10 20 30 40 50 60 70 80 90 100 Liters per hour

Performance and Economy

Phaser's unique Overhead Combustion System, coupled with turbocharging and air flow increasing performance's high power output with 20% torque reserve and maximum fuel specific fuel consumption. It enables the most continuous working phase for the diesel and greatest operational life for the engine operator.

Perkins is a leader in the development of engines for the construction and mining industries. Our engines are designed to meet the most demanding conditions of these industries.

Perkins (USA) Inc., 3000 N. 10th St.,

Atlanta, GA 30309, USA

phaser™



Perkins Truck Power

Perkins' truck power range featuring Phaser, Phasor and Phasor 2100. All three engines are designed to meet the most demanding conditions of the trucking industry. They are designed to give maximum performance and fuel economy in the most demanding conditions.

Perkins is an approved vehicle engine and holder of the Perkins Motor Vehicle Engine (PMVE) and the Perkins Motor Vehicle Engine (PMVE) certification. The Perkins Motor Vehicle Engine (PMVE) certification is a mark of quality and reliability.

Perkins has a complete distribution network with over 1,000 dealers in the United States. For more information, contact your local Perkins distributor.



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Perkins (USA) Inc.

3000 N. 10th St., Atlanta, GA 30309, USA

Perkins (USA) Inc. is a subsidiary of Perkins plc, London, UK

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