The 1100 Series engine family is the successor to the very successful New 1000 Series. It has been inspired by and led by the future requirements of our customers to meet the needs of the construction, materials handling, agricultural/turf and genset markets.

Built to the most demanding standards, the 1100 Series engines meet all the requirements of both EC Stage 2 and USA EPA Tier 2 off-highway emissions legislation for 2003 and bring significant improvements over the 1100 Series’ highly successful predecessors.

The 1106C-E60TA is a quiet 6.0 litre fully electronic unit delivering improved performance and reduced operating costs in an efficient package ideal for a range of off-highway applications.

In the 1100 Series, Perkins have designed to perform ... delivered with choice.

Class leading performance
The 1106C-E60TA provides an increase in torque capability over its highly successful predecessor. Improvements have also been made to the torque curve of the engine to give up to 12% more low speed torque and torque back up to 37%.

Cleaner and Quieter
The 1106C-E60TA operates with smoke levels barely visible to the naked eye. The range includes the introduction of Eco-filtration for both fuel and oil that are of a high quality construction with a re-usable canister, a disposable inner element and a simpler service process. Improvements have also been made to bare engine noise over its predecessor. Concentrating on reduced noise levels throughout the complete operating range of the engine from idle through to full load rated speed. This has been achieved through numerous individual product developments, including a new cylinder block design and developments to the front end gear train.

Quality by design
Product design and process improvements have been implemented from early design stage to enhance both engine reliability and durability.
Perkins have also taken the opportunity to improve the 'design for assembly' through simplified sub-assemblies and improved joint and sealing technologies.

Electronics
Having recognised the need for flexibility Perkins now offers full authority electronics as standard on the 1106C-E60TA. This allows an easy introduction into the full spectrum of choice that is made available through the use of electronic control from basic engine to total machine integration including features such as cruise control, throttle response, engine history and machine protection.

Ease of installation
The changeover for existing New 1000 Series customers to EC Stage 2 and USA EPA Tier 2 product is made easy through the carryover of existing envelope size and mounting points therefore minimising installation issues in machine redesign.

Lower operating costs
Service intervals are now set at 500 hours as standard and the warranty period has been extended to 2 years with 3 years on major components. In addition, fuel economy has improved as much as 6%.

Product Support
Total worldwide service continues to be provided through a network of 4000 distributors and dealers. This is enhanced by the introduction of TIPSS (The Integrated Parts and Service System) which represents a step change in diesel engine support. TIPSS enables customers to electronically specify and order parts as well as service electronic and mechanical engine with online guides and service tools.

designed to perform ... delivered with choice

<table>
<thead>
<tr>
<th>Performance Data</th>
<th>Gross Intermittent ISO/TR 14396</th>
<th>Speed rev/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output (kW)</td>
<td>129.5</td>
<td>2500</td>
</tr>
<tr>
<td>Power Output (bhp)</td>
<td>174.4</td>
<td>2500</td>
</tr>
<tr>
<td>Peak Torque (Nm)</td>
<td>695.0</td>
<td>1400</td>
</tr>
<tr>
<td>Peak Torque (lbf ft)</td>
<td>512.0</td>
<td>1400</td>
</tr>
</tbody>
</table>
1100 Series
1106C-E60TA

Option Groups
A selection of optional items is available to enable the customer to prepare a specification precisely matched to his needs.

General Data
Bore and stroke 100mm x 127mm
Number of cylinders In-line 6 cylinder
Cubic capacity 5.98 litres (365 cu.in.)
Cycle 4 stroke
Aspiration Turbo charged air/air charge cooling
Combustion system Direct injection
Compression ratio 17.25:1
Engine rotation Anti-clockwise viewed on flywheel
Governing 0% 2% 5% 10%
Cooling system Pressurised water
Length 933 mm
Width 697 mm
Height 792 mm
Dry weight 505 kg

Engine Specification
Cast iron engine block
Flywheel and flywheel housing
Ecoplus Oil and Fuel Filters
Thermostat start aid
Cast iron multi-piece exhaust manifold
Coolant pump gear driven
12 or 24 volt Alternators
Provision for PTOs
Choice of cooling fans
Starter motor 12 or 24 volt
Choice of turbocharger outlet orientation
Choice of sump
Choice of dipstick positions (left or right)
Choices of fill positions
Choice of water outlet

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All information in this leaflet is substantially correct at the time of printing but may be changed subsequently by the Company