

■ 1HZ ENGINE

1. General

The following features have been adopted on the model for Australia and the HZJ105L-GCMNSV model for China to comply with the European STEP-II regulations:

- Emission Control System
- EGR System
- Injection Pump with TCV (Timing Control Valve) and BACS (Boost Altitude Compensation System)

► Engine Specifications ◀

| Model | | | Australia and HZJ105L-GCMNSV for China | G.C.C. and General Countries |
|----------------------------|---------|---------------------------|---|---------------------------------|
| No. of Cyls. & Arrangement | | | 6-Cylinder, In-line | ← |
| Valve Mechanism | | | 12-Valve OHC, Gear and Belt Drive | ← |
| Combustion Chamber | | | Swirl Type | ← |
| Manifolds | | | Cross-Flow | ← |
| Fuel System | | | Distributor Type (Mechanically Controlled) | ← |
| Displacement | | cm ³ (cu. in.) | 4164 (254.0) | ← |
| Bore x Stroke | | mm (in.) | 94.0 x 100.0 (3.70 x 3.94) | ← |
| Compression Ratio | | | 22.4 : 1 | ← |
| Max. Output | | SAE-NET | 96 kW @ 3800 rpm | ← |
| Max. Torque | | SAE-NET | 285 N·m @ 2200 rpm | ← |
| Valve Timing | Intake | Open | 8° BTDC | ← |
| | | Close | 36° ABDC | ← |
| | Exhaust | Open | 51° BBDC | ← |
| | | Close | 5° ATDC | ← |
| Firing Order | | | 1-4-2-6-3-5 | ← |
| Fuel Cetane Number | | | 48 or more | ← |
| Emission Regulation | | | European STEP II | — |
| Oil Grade | | | API CF-4 | ← |
| Engine Service Mass | | kg (lb) | 317 (699) | 313 (690) |