



The Toyota 1KZ-TE is a 3.01(2.982 cc. 181.97 cu-in) four cylinders, fourstroke cycle water-cooled turbocharged internal combustion diesel engine. manufactured by the Toyota Motor Corporation. The 1KZ-TE engine has a cast iron block with 96.0 mm (3.78 in) cylinder bores and a 103.0 mm (4.06 in) piston stroke for a capacity of 3.0 l. Compression ratio rating is 21.2.1.

The breakdown of the engine code is as follows:

1 – 1st generation engine

KZ - Engine family

T - Turbocharged

E - Electronic fuel injection

| ENGINE SPECIFICATIONS    |  |
|--------------------------|--|
| Engine code              | 1KZ-TE   |
| Layout                   | Straight-4, vertical   |
| Fuel type                | Diesel   |
| Production               | 1993-2006  |
| Displacement             | 3.0 L., 2,982 cm 3 (181.97 cu in)  |
| Injection pump           | Electronically controlled  |
| Power adder              | Toyota CT12B   |
| Horsepower net           | 130 PS (96 KW; 129 HP) at 3,600 rpm<br>140 PS (103 KW; 138 HP) at 3,600 rpm<br>147 PS (108 KW; 145 HP) at 3,600 rpm  |
| Torque output            | 289 Nm (29.5 kg·m; 213.3 ft·lb) at 2,000 rpm<br>295 Nm (30.0 kg·m; 217.7 ft·lb) at 2,400 rpm<br>232 Nm (23.7 kg·m; 171.2 ft·lb) at 2,000 rpm<br>334 Nm (34.0 kg·m; 246.5 ft·lb) at 2,000 rpm<br>343 Nm (35.0 kg·m; 253.1 ft·lb) at 2,000 rpm |
| Firing (enjection) order | 1-3-4-2  |

|  | MAINTENANCE DATA   |
|--|--|
|  | Valve clearance (Cold)   |
| Intake valve                                     | 0.20-0.30 mm (0.008-0.012 in)  |
| Exhaust valve                                    | 0.25-0.35 mm (0.010-0.014 in)  |
|  | Compression pressure   |
| Standard   | 31.0 kg/m2 (3,040 kPa, 441 psi)  |
| Minimun  | 20.0 kg/m2 (1,961 kPa, 284 psi)  |
| Compression differential limit between cylinders | 5.0 kg/m2 (490 kPa, 71 psi)  |
|  | Oil system   |
| Recommended engine oil                           | 10W-30 or 10W-40 ("CF", "CE", "CD")  |
| Engine oil capacity                              | Dry fill: 7.5 L (7.9 US qt, 6.6 lmp. qt) With oil filter change: 7.0 L (7.4 US qt, 6.2 lmp. qt) Without oil filter change: 6.4 L (6.8 US qt, 5.6 lmp. qt)  |
| Oil pressure                                     | Idle speed: 0.3 kgf/cm2 (29 kPa, 4.3 psi) At 3,000 rpm: 2.5 kgf/cm2 (245 kPa, 33 psi)  |
|  | Fuel system  |
| Injection nozzle opening pressure                | New nozzle: 151-159 kgf/cm2 (14,800-15,590 kPa, 2,150-2,260 psi)  Reused nozzle: 146-154 kgf/cm2 (14,300-15,100 kPa, 2,080-2,190 psi)  Adjusted pressure*: 145-155 kgf/cm2 (14,220-15,200 kPa, 2,060-2,200 ps.  "- Varying the adjusting shim thickness by 0.025 mm (0.0010 in) changes the injection pressure by about 4.8 kgf/cm2 (470 kPa, 68 psi). |

ATTENTION: We try to use verified sources and official documentation, however, differences between sources or errors in entering information may occur. We do not provide advice on technical issues related to the engines operation or repair. We do not recommend using provided information for engines repairing engines or spare parts ordering, use only official service manuals and spare-parts catalogs.

# **Toyota Hilux 1kz Te Engine Specifications**

**Daniela Niemeyer** 

#### **Toyota Hilux 1kz Te Engine Specifications:**

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Export-Technical Dept,1969 Engines ,1980 Toyota Hilux/4 Runner Diesel 1979-1997 Auto Repair Manual-LN, Diesel Eng 2 & 4 Wheel Drive Max Ellery,2003-05-01 Step by step instructions with plenty of photographs plus detailed information on 4 cylinder L 2L 2L T and 3L vehicles including turbo versions from 1979 to 1997 2WD and 4WD LN Series for 30s 40s 50s 60s 120s and 130s body styles Engines all transmissions axles suspension brakes body wiring schematics problem solving plus more Tune up Maintenance Repairs Mechanical Bodywork Electrical diagrams Specifications Restoration Worldwide specifications Suitable for DIY enthusiast or the mechanic Toyota Hilux 106 Success Secrets -

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Whispering the Secrets of Language: An Emotional Quest through Toyota Hilux 1kz Te Engine Specifications

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