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## **ENGINE SPECIFICATIONS**

January 2001 ES-TOY04R

#### General

Manufacturer	TOYOTA		
Model/Year	3L	8/1988 -	7/00 to
L/(CID)	2,779cc DIESEL	No. of Cylinders	4
Bore & Stroke	96.0mm X 96.0mm		
Firing Order	1-3-4-2		
Compression Ratio	22.3:1	Idle Speed	700 rpm
Comp. Pressure @ RPM	3.2 MPa @ 250 rpm	2.0 MPa min.	<490 kPa diff.
Oil Pressure	29 kPa min at idle	Oil Capacity & Grade	6.5 ltr dry CC-CD
Injection Timing	Dial indicator and	plunger stroke.	<u> </u>

#### Block

Bore Diameter Standard	96.000 - 96.030 mm	
Maximum Overbore	1.00 mm	
Liner Flange Height & Fit	N/A Repair sleeves are available.	
Crankshaft Housing Bore	66,000 - 66,020 mm	
Camshaft Housing Bore	No. 1: 38.015 - 38.027 mm Nos. 2 - 5: 31.015 - 31.027 mm	
Block Deck Height	0.20 mm warp limit	

#### Pistons & Rings

Piston to Bore Clearance	0.05 - 0.07 mm @ 56.27 - 56.33 mm from crown.	
Piston Protrusion	0.68 - 0.97 mm (Graded head gaskets - refer notes.)	
Gudgeon Pin Diameter	29.000 - 29.012 mm	
Gudgeon Pin Clearance	0.004 - 0.012 mm Limit: 0.05 mm	
Ring Equipment	Top: 2.0 mm (½K), 2 <sup>nd</sup> : 2.0 mm; Oil: 4.0 mm.	
Piston Ring End Gap	Top: 0.35 = 0.65 mm: 2 <sup>nd</sup> : 0.30 = 0.60 mm: Oil: 0.20 = 0.50 mm.	

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# **Toyota 31 Engine Specifications**

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## **Toyota 31 Engine Specifications:**

Advances of Science and Technology Mulatu Liyew Berihun, 2022-01-01 This two volume set of LNICST 411 and 412 constitutes the refereed post conference proceedings of the 9th International Conference on Advancement of Science and Technology ICAST 2021 which took place in August 2021 Due to COVID 19 pandemic the conference was held virtually The 80 revised full papers were carefully reviewed and selected from 202 submissions. The papers present economic and technologic developments in modern societies in 7 tracks Chemical Food and Bioprocess Engineering Electrical and Electronics Engineering ICT Software and Hardware Engineering Civil Water Resources and Environmental Engineering ICT Mechanical and Industrial Engineering Material Science and Engineering Energy Science Engineering and Policy Ward's Popular Mechanics, 1991-12 Popular Mechanics inspires instructs and influences readers to help Auto World ,2001 them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Mechanics, 1991-12 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Design of Racing and High-Performance Engines 1998-2003 Daniel J Holt, 2003-08-05 The 53 technical papers in this book show the improvements and design techniques that researchers have applied to performance and racing engines. They provide an insight into what the engineers consider to be the top improvements needed to advance engine technology and cover subjects such as 1 Direct injection 2 Valve spring advancements 3 Turbocharging 4 Variable valve control 5 Combustion evaluation and 5 New racing **Popular Mechanics**, 1991-12 Popular Mechanics inspires instructs and influences readers to help them master engines the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Business Iapan ,1989-07 Ward's Automotive Yearbook ,2000 Includes advertising matter Lemon-Aid New and Used Cars and Trucks 2007-2017 Phil Edmonston, 2017-03-11 Steers buyers through the confusion and anxiety of new and used vehicle purchases like no other car and truck book on the market Dr Phil along with George Inv and the Editors of the Automobile Protection Association pull no punches Fleet Owner ,2002 The Auto Guide 2002 Jacques Duval, Denis Duquet, 2001-11-03 The process of buying a new car is a stress filled prospect for most of us How big a car do we really need How flashy a look do we truly want What is the safest choice for our children as passengers Which make and model will provide us with lasting performance and value With more than 520 pages and 1 000 photographs and illustrations The Auto Guide 2002 is a valuable tool in researching the best purchase for your money and taste The Auto Guide 2002 includes details on new models that are not easy to find and assemble elsewhere a summary of positive and negative judgments on

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http://www.frostbox.com/files/Resources/index.jsp/Volvo%20Usa%20Manual%20Transmission.pdf

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