

MAKE: TOYOTA YEAR: # CYLS: 6 CAPACITY:

MODEL: 1HD-FTE COMP RATIO: STROKE:

BORESIZE: 94.000-94.030 3 GRADES MAX BORE: 94.23 STD.

COMP PRESSURE: 498PSI OR MORE REBORE ? : 0.50mm

MIN. COMP.: 356PSI, MAX VARIATION 71PSI

BLOCK HEIGHT: SLEEVE HEIGHT:

PISTONS ON RODS: RECESS DEPTH:

PISTON DIA: 93.870-93.900 IN 3 GRADES 44.66mm BELOW CROWN

PISTON CLC: 0.070-0.090 MAX 0.090

RING GAP TOP: 0.27- 0.33 MAX 0.85 2ND: 0.40-0.55 MAX 0.90

3RD: OIL RING GAP: 0.20-0.50 MAX 0.88

PISTON HEIGHT: BELOW 0.225 USE GRADE 1 GASKET; 0.226-0.325 USE GRADE 3; ABOVE 0.326 USE GRADE 5

GUD PIN CLC: 0.004-0.012 BUSH ID 33.008-33.020 MAX CLEARANCE 0.030

GUD PIN DIA: 33.000-33.012 ROD LENGTH:

CON ROD CLEARAN: 0.036-0.054 U/S 0.037-0.077 MAX 0.100 ROD SIDE CLC:

CRANKPIN DIA: 58.982-59.000 CRANK HARDNESS:

ROD TUNNEL:

MAIN JNL DIA: 66.982-67.000

MAIN CLEARANCE: 0.036-0.054 U/S 0.037-0.077 MAX 0.100

MAIN TUNNEL: REGRIND ? : 0.25 & 0.50

FILLET RADII: REHARDEN @:

CRANK ENDFLOAT: 0.040-0.240 MAX 0.30

CAM CLEARANCE: #1 0.022-0.074 OTHERS 0.023-0.075

MAX CLEAR: 0.100mm

END FLOAT: 0.10-0.20 MAX 0.30 CAM DIA.: #1 34.969-34.985

HEAD THICKNESS: OTHERS

HEAD HARDNESS: 27.986-28.002

PRECOM HEIGHT:

INJECTOR PROTRU:

VALVE HEIGHT EX: WEAR LIMIT:

VALVE HEIGHT IN: WEAR LIMIT IN:

SEAT ANGLE IN: 45° IN SEAT WIDTH: 1.4-1.8

SEAT ANGLE EX: 45° EX SEAT WIDTH: 1.6-2.0

VALVE LIFT IN: LOBE 48.203-48.303 MIN 47.998 VALVE LIFT EX: LOBE 50.734-50.834 MIN 50.234

GUIDE HEIGHT:

SPRING PRESS OU: FREE 49.60mm 24.2-26.8KG @ 39.5mm

SPRING PRESS IN: _____

STEM DIA IN: 6.970-6.985 MARGIN 1.00mm MIN 0.083- REALLY? LENGTH: 126.85-127.45 MIN 126.85

STEM DIA EX: 6.960-6.975 MARGIN 1.00mm MIN 0.083- LENGTH EX: 126.83-127.43 MIN 126.83

O/S GUIDES: _____

GUIDE ID: 7.010-7.030

MAX CLEARANCE: IN 0.080 EX 0.10

VALVE CLC: IN 0.025-0.060 EX 0.035-0.070

TAPPET CLEARANC: _____

O/PUMP INNER CL: _____

O/PUMP OUTER CL: _____

O/P END CLC: _____

OIL PRESS: _____

PUMP/DIST TIMIN: _____

TORQUES BIG ENDS: 36.8nm + 90° FRONT PULLEY: 430nm

MAINS: 12 POINT 103nm + 90°, 6POINT 18nm CAMSHAFT: 98nm

HEAD: 68.6nm + 90° + 90°

FLYWHEEL: 127.4nm INJ PUMP DRIVE: 137nm

BALANCE WEIGHTS: _____ INJECTORS: _____

CAM CAPS: _____

OTHER: PISTON COOLINF JETS 27nm FAN SPECS: _____

COMMENT 1: CONROD BOLT DIA 8.300-8.400 MIN 7.950. MAIN BOLT DIA 11.80-12.00 MIN 11.50

COMMENT 2: TO SET VALVE BRIDGE:- BACK OFF SCREW, SET TAPPET CLEARANCE, ADJUST BRIDGE SCREW UNTIL THE TAPPET CLEARANCE BEGINS TO CHANGE, TIGHTEN LOCK NUT, RESET TAPPET

COMMENT 3: TIMING GEAR BACKLASH 0.05-0.15mm MAX 0.30

COMMENT 4: _____

COMMENT 5: _____

* UNCONFIRMED SPECIFICATION, USE AT OWN RISK PUB #: RM617**