

TYPHOON / SYCLONE ENGINE IN DETAIL

General Data:	
Type	V6
Displacement	4.3L
RPO	L4
Bore	4.00
Stroke	3.48
Compression Ratio	8.35:1
Firing Order	1-6-5-4-3-2
Oil Pressure	6psi /1000RPM 18psi / 200RPM 24psi at/RPM
Cylinder Bore	
Diameter	3.9995-4.0025
Out of Round /Production/Service	0.001/ 0.002
Taper Production Thrust/ Relief/Service	0.0005/0.001/0.001
Piston	
Clearance Production / Service Limit	0.0015-0.0030/ 0.0027
Piston Ring	
Groove Clearance Production Top-2 nd	0.0012-0.0032
Groove Clearance Production Service Limit	+0.001
Gap Production Top-2 nd	0.010-0.020 /0.010-0.025
Gap Service Limit	0.010
Oil Groove Clearance Production	0.002-0.007
Oil Groove Clearance Service Limit	+0.001
Oil Gap Production	0.015-0.055
Oil Gap Service Limit	0.010
Piston Pin:	
Diameter	0.9270-0.09273
Clearance in Piston Production	0.0002-0.0007
Clearance in Piston Service Limit	0.001
Fit in Rod	0.0008-0.0016
Crankshaft:	
Diameter #1	2.4484-2.4493
Diameter #2/#3	2.4481-2.4490
Diameter #4	2.4479-2.4488
Taper Production	0.0002
Taper Production Service Limit	0.001
Out of Round Production	0.0002
Out of Round Service Limit	0.001
Bearing Clearance Production #1	0.0008-0.0020
Bearing Clearance Production #2/#3	0.0011-0.0023
Bearing Clearance Production #4	0.0017-0.0032
Bearing Clearance Service Limit #1	0.0010-0.0015
Bearing Clearance Service Limit #2/#3	0.0010-0.0025
Bearing Clearance Service Limit #4	0.0025-0.0035
Crankshaft End play	0.0025-0.0035
Crank pin Diameter	2.2487-2.2497
Crank pin Taper Production	0.0005
Crank pin Taper Service Limit	0.001
Crank pin Out of Round Production	0.0005
Crank pin Out of Round Service Limit	0.001
Rod Bearing Clearance production	0.0013-0.0035
Rod Bearing Clearance Service Limit	0.0030
Rod Side Clearance	0.006-0.014

Camshaft:	
Lobe Lift +/-0.002 Intake/Exhaust	0.357/ 0.390
Journal Diameter	1.8682-1.8692
Camshaft End Play	0.004-0.012
Valve System:	
Lifter	Hydraulic
Rocker Arm ratio	1.50:1
Valve Lash Intake/ Exhaust	One turn down from Zero Lash
Face Angle	45
Seat Angle	46
Seat Run out	0.002
Seat Width Intake/ Exhaust	1/32-1/16 ,1/16-3/32
Stem Clearance Production Intake	0.0010-0.0027
Stem Clearance Production Exhaust	0.0010-0.0027
Stem Clearance Service Intake/ Exhaust	+0.001 /+0.002
Valve Spring Free Length	2.03
Valve Spring Pressure Closed/Open	76-84lb at 1.70, 194-206lb at 1.25
Valve Spring Installed Height +/-1/32	1 23/32
Valve Spring Diameter Free Length	1.86
Valve Spring Diameter Approx. # of Coils	4