

YAMAHA V-Max 4 -92 std

Engine Basic Spec

Bore	63
Stroke	59.6
Con-Rod	110
Total cc	743.011
Bore/Stroke Ratio	1.057
Rpm Peak HP	8000
HP,max	130.4
Rpm Peak Torque	7750
Torque,max,lb-ft	87.1
BMEP Hp Peak,Psi	140.4
BMEP Hp peak,Bar	9.68
Piston Speed,m/s	15.82
Liter/Hk	177.92
Fuel Flow	79.7
Air Flow	217.2
A/F	12.6
BSFC	0.63
Used Cylinder gasket	0.50

Head Basic Spec

Geometric CR/1	11.15
Trapped CR/1	6.27
Used Head Gasket	3 * 0.25
Head Gasket Bore	64.0
Deck Clearance	0.65
Head Step Cut	0.3 - 0.5
Total Squish Clea.	2.0
Head Bore	63.85
Est. Octane R+M/2	86
Est crank. press.,PSI	138

Head Volume

Gasket Volume	2.41
Deck Volume	2.03
Port Closed Vol.	96.48
Head cc Flat Plate	18.9
Head cc Installed	18.3

Head Design

Type	central
Bowl Width + ble.R	49.76
Bowl Radius	26
Squish Width-bl.R	7
Squish Angle	9.8
SAR	0.3761
Total deep	14.65
Head width	34

Head Squish Action

Squish Velocity m/s	10.0
Squish Pressure Ratio	1.049
At deg btdc	12.37
Kinetic Energy mj	0.63

M.Performance Tel: 0250-71321

Std. Piston Spec

Skirt Length	63.75
Width intake side	b31.75*h17.7
Pin c. to up length	30.8
Pin c. to down length	22.95
Pin c. to trans inlet	45.9
Wrist-Pin diameter	16
Thickness of Rings	2 * 1.2
Dome Ang under Sq.band	8.9
Dome volyme,cc	5.03cc
Weight Pist. & Ring	241g

Cylinder Reed Intake Spec.

Transfers Spec

Main port roof to top	47.5
M-port liner width	25.8
M-port chordal width	24.3
M-port angle up	14
5-Port roof to top	48.5
5-port liner width	21.4
5-port chordal width	22.6
5-port angle up	21
Bost port roof to top	48.8
Bost port liner width	15
Bost port angle up	31
Total area	1303
Time-Area	12.12
S-sg mm	2.52
Good to bmep/hp	over design
Opens	117.67
Duration	124.66
TAW T/B ratio (ch)	1.62
TAW T/B ratio liner	1.74
Trans Inlet,mm	100.2

Exhaust Spec.

Dist. to top	31.6
Upper radius	11.8
Lower radius	15.7
Max width	44
Blowdown width	43.9
% of bore width	69.8
Port type	rectangular
Port Opens	84.37
Duration	191.26
Blowdown deg.	33.3
Total Area mm ²	1092.1
Blowdown Area mm ²	640.8
Lower Area,mm ²	451.3
Time-Area	15.36
S-sg mm	2.85
Angle-Area	7.37
Estimated HP	134.8
Estimated BMEP,Psi	147.4
Est. Blowdown HP	129.2
Est. Blowdown BMEP.Psi	141
Length of port	34.1
I.D of port	36.4
Est. port i.d	37.3
Exh. I.D good to rpm.	85-9500
Exh. gas velocity est.fps	155

Carburetor Spec

Type	Mikuni 32 tm
Stock Main Jet	135
Main Jet on Dyno	130
Mj based on air temp,c	+20
Mj based of barometer	30.18
Mj based on vapor press.	0.65
Jet Needle	
Needle Jet	
Throttle valve cut.	
Pilot Jet	47.5
Air Screw	2

Ignition Spec

BTDC ,mm	
BTDC ,deg	16
Spark Plug	BR9ES
Plug Gap,mm	0,75

hooks