

A/C THUNDER CAT -93

Engine Basic Spec

Bore	76.5mm
Stroke	65mm
Con-Rod	130mm
Total cc	896.4cc
Bore/Stroke Ratio	
Rpm Peak HP	rpm
HP,max	hp
Rpm Peak Torque	rpm
Torque,max	lb-ft
BMEP Hp Peak	psi
BMEP Hp peak	bar
Piston Speed	m/s
Piston Speed	ft/min
Fuel Flow	
Air Flow	
A/F	
BSFC	

Head Basic Spec

Geometric CR/1	13.09
Trapped CR/1	6.8
Used Head Gasket	0.1 mm
Deck Clearance	0.36mm
Head Step Cut	1.41mm
Total Squish Clea.	1.87mm
Head Bore	77.2mm
Used Cylinder gasket	0.4mm
Crank Press.	140psi
Est. Octan R+M/2	

Head Volume

Gasket Volume	0.48
Deck Volume	1.65
Port Closed Vol.	143.41
Head cc Flat Plate	35.6
Head cc Installed	24.7

Head Design

Type	central
Bowl Width + ble. rad.	54.2mm
Bowl width - ble. rad.	50.5mm
Squish Width	11.7mm
Squish Angle	16°
SAR	0.4980
Total deep	19.5mm
Head width	37.1mm

Head Squish Action

Squish Velocity	20.3m/s
Squish Pressure Ratio	1.056
At deg btdc	11.6°
Kinetic Energy	mj

Std. Piston Spec

Skirt Length	mm
Pin c. to up length	mm
Pin c. to down length	mm
Pin c. to trans inlet	mm
Wrist-Pin diameter	mm
Thickness of Rings	2 *
Dome Height	
Dome average Radius	
Dome Ang under Sq.band	15°
Dome volyme,cc	13.02
Weight Pist. + Ring	g
Weight wrist pin	g

Crank Reedt Spec

Est. carb on cc/rpm	41.8
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Exhaust Spec.

Dist. to top	31.5mm
Upper radius	15
Lower radius	16.5
Max width	50.9mm
Blowdown width	50.9mm
% of bore width	66.5%
Port Opens	80.48°
Duration	199.03°
Blowdown deg.	39.1°
Total Area	1504mm ²
Blowdown Area	940mm ²
Lower Area	564mm ²
Time-Area	13.10
Time-Area,blowdown	10.04
S-sg mm	3.914
Angle-Area	6.56
Estimated HP	129.3hp
Estimated BMEP	112.9psi
Est. Blowdown HP	166.2hp
Est. Blowdown BMEP	145psi
Length of port	46.8mm
I.D of port	42mm
Estimated port i.d	43.8mm
Port id good to	62-6800 rpm
Exh. gas velocity est.	194fps

Carburator Spec

Typ	VM38
Main Jet	440
Mj based on air temp,c	-18 / -7
Jet Needle	6DH8-3
Needle Jet	480-Q-2
Throttle valve cut.	
Pilot Jet	40
Air Screw	

Transfers Spec

Main port roof to top	52mm
M-port liner width	29.7mm
M-port chordal width	28.3mm
M-port angle up	3°
5-Port roof to top	52mm
5-port liner width	20.2mm
5-port chordal width	18.1mm
5-port angle up	7°
Total area	1452mm ²
Time-Area	7.828
S-sg mm	2.33
Good to bmep/hp	132 / 129hp
Opens	119.5°
Duration	121°
TAW T/B ratio (ch)	1.43
TAW T/B ratio liner	1.64
5 Port ang carbsid.4°*exh.side7°	
mainang carbsid.51°*36°exh.side	

Ignition Spec

Btdc at 6000 rpm,mm	3.48
Btdc at 6000 rpm,deg	24°
Spark plug	BR9ES
Spark plug gap	0.7
Cdi box id. #	
Alternator output	150watt

MULLE 96-08-27

Sq. Clea. 1,87-2,10 på 10mm