

Head #:
Customer: Brian Kelly
Operator: Peter Steiner

Bore Adapter Diameter: 3.030 "
Int Port Adapter: Radiused Inlet
Exh Port Adapter: None (no adapter)

Report Comment: Comparing Ported Norton RH10 and Full Auto

Test Comments:

Norton Twin Cylinder Head
Intake Valve; Standard valve, Size 1.4750in
Exhaust Valve; standard valve, Size 1.300in
Intake Flowed With Radiused Inlet Guide
Air Flow Potential Horsepower 72.7 @.400in lift
Intake runner volume 58.3cc, exhaust runner size 42.0cc and Combustion chamber Volume
cylinder #1 53.1cc, cylinder #2 53.1cc

Report Comparing 2 Heads

		Current Test			Comparison Test				
Folder Name:		Norton			Norton				
File Name:		NortMike			FullautoBK				
Test Date:		08/21/2014			04/01/2014				
Test Time:		11:46 pm			10:22 pm				
Intake:									
Tested at:		25"			25"				
# Valves:		1			1				
Valve Dia:		1.475			1.575				
Stem Dia:		.306			.306				
AvgPort Area:		1.02			1.04				
Throat Dia:		1.325			1.325				
Seat Angle:		45			45				
Exhaust:									
Tested at:		25"			25"				
# Valves:		1			1				
Valve Dia:		1.3			1.615				
Stem Dia:		.306			.306				
AvgPort Area:		.95			.91				
Throat Dia:		1.215			1.205				
Seat Angle:		45			45				
Port		# Pnts	Lift (in)	Avg CrCFM 28.0"	# Pnts	Lift (in)	Avg CrCFM 28.0"	--Difference-- CFM	-- %
Avg Intake		2	.000	.0	1	.000	.0	0.0	
Avg Intake		2	.050	23.5	1	.050	27.0	3.5	14.9
Avg Intake		2	.100	47.4	1	.100	56.5	9.1	19.2
Avg Intake		2	.150	74.1	1	.150	86.7	12.6	17.0
Avg Intake		2	.200	99.6	1	.200	112.3	12.7	12.8
Avg Intake		2	.250	116.8	1	.250	132.2	15.4	13.2
Avg Intake		2	.300	127.8	1	.300	142.0	14.2	11.1
Avg Intake		2	.350	136.6	1	.350	146.4	9.8	7.2
Avg Intake		2	.400	142.4	1	.400	147.7	5.3	3.7
Avg Exhaust		2	.000	.0	1	.000	.0	0.0	
Avg Exhaust		2	.050	17.1	1	.050	20.3	3.2	18.7
Avg Exhaust		2	.100	37.3	1	.100	41.5	4.2	11.3
Avg Exhaust		2	.150	57.9	1	.150	56.5	-1.4	-2.4
Avg Exhaust		2	.200	75.9	1	.200	65.5	-10.4	-13.7
Avg Exhaust		2	.250	88.4	1	.250	76.3	-12.1	-13.7
Avg Exhaust		2	.300	95.2	1	.300	85.1	-10.1	-10.6
Avg Exhaust		2	.350	98.3	1	.350	93.3	-5.0	-5.1
Avg Exhaust		2	.400	101.6	1	.400	99.7	-1.9	-1.9

Port Flow Analyzer v3.5

Test: NortMike

Folder: Norton

Steiner Racing Developments

Ph 07 886 4849; 0274 911 911

Performance Trends (C) 2006

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Report Comment: Comparing Ported Norton RH10 and Full Auto

Head File: Untitled

Head Comments:

Head Number

Customer

Brian Kelly

Intake

Exhaust

Layout: 1 valve & 1 port

Layout: 1 valve & 1 port

Valve Diameter, in 1.475

Valve Diameter, in 1.3

Stem Diameter, in .306

Stem Diameter, in .306

Throat Diameter, in 1.325

Throat Diameter, in 1.215

Avg Seat Angle, deg 45

Avg Seat Angle, deg 45

Port Shape: Round

Port Shape: Round

Port Volume, ccs 58.3

Port Volume, ccs 42

Avg Port Diameter, in 1.138

Avg Port Diameter, in 1.099

Avg Port Height, in 1.62

Avg Port Height, in 1.33

Port Length, in 3.5

Port Length, in 2.7