

SD Performance

Session Summary - (Corrected Flow)

Date: 7/9/02 11:38:41 AM

a:\strport.ftd

Session: 8

General Test Data		SuperFlow SF-600		Test operator: Dave Bisschop		
	Intake	Exhaust	Estimated Power per Cylinder (HP)		62.8	
Valve Head Diameter (in.)	2.110	1.770	Intake valve dia. to bore ratio		0.50	
Valve Stem Diameter (in.)	0.342	0.342	Exhaust valve dia. to bore ratio		0.42	
Effective Valve Area (sq. in.)	3.405	2.369	Exhaust to intake ratio		0.76	
Leakage (cfm)	N/A	N/A	Speed for peak power (RPM)		5,089	
Valve Seat Angle (degrees)	30.0°	45.0°	Optimum intake runner lengths (in.)		25.9	
Port Length (in.)	4.5	4.8	<i>96 cc combustion chamber</i>		19.1	
Port Volume (cc)	165.0	155.0	<i>volume</i>		14.5	
Average Flow (cfm)	185.30	140.60	Units	English	Chamber	Wedge
Maximum Flow (cfm)	246.10	186.50	Bore dia. (in.)	4.181	Stroke (in.)	4.210

Flow Range Number	1	2	3	4	5	6					Test
Flow Range, nominal	38.0	75.0	150.0	300.0	450.0	600.0					
Corrected range (int.)	36.9	71.3	149.0	295.0	441.4	593.0					0.0
Corrected range (exh.)	41.5	80.4	162.9	324.3	484.8	640.0					0.0

Intake Valve Test Data @ 28.0 inches of water							1 valve(s) / cylinder					
Valve Lift	0.100	0.200	0.300	0.400	0.500	0.550						
Flow Range, (nom.)	295.0	295.0	295.0	295.0	295.0	295.0						
Cylinder #1	84.70	142.10	183.30	218.30	237.80	245.40						
Cylinder #2	84.10	141.20	185.30	218.50	236.00	244.80						
Cylinder #3	84.70	143.70	186.90	220.20	236.60	241.60						
Cylinder #4	83.80	143.20	187.10	219.70	239.40	246.10						
Cylinder #5	83.00	141.90	184.30	218.30	237.10	243.60						
Cylinder #6	83.60	142.30	185.50	220.00	237.90	243.70						
Cylinder #7	84.40	142.40	184.50	217.40	236.00	242.40						
Cylinder #8	84.40	142.10	185.40	218.40	237.10	244.20						
Lift/Dia. Ratio	0.047	0.095	0.142	0.190	0.237	0.261						

Exhaust Valve Test Data @ 28.0 inches of water							1 valve(s) / cylinder					
Valve Lift	0.100	0.200	0.300	0.400	0.500	0.600						
Flow Range, (nom.)	324.3	324.3	324.3	324.3	324.3	324.3						
Cylinder #1	60.20	116.00	150.10	171.10	180.90	186.50						
Cylinder #2	59.20	115.30	150.80	167.10	178.50	184.10						
Cylinder #3	58.40	112.60	143.30	161.10	172.10	180.00						
Cylinder #4	57.30	113.80	146.00	162.80	173.10	180.70						
Cylinder #5	56.80	111.90	146.40	163.10	174.00	180.40						
Cylinder #6	60.20	112.20	143.70	160.70	171.00	178.40						
Cylinder #7	59.40	115.50	147.50	167.20	178.20	185.00						
Cylinder #8	57.90	114.70	150.80	168.00	179.30	185.60						
Lift/Dia. Ratio	0.056	0.113	0.169	0.226	0.282	0.339						