

SHORT BLOCK

Block: 5.3L GEN III	Bore: 3.780 in	Stroke: 3.622 in
Cylinders: 8	Cyl Vol: 666.07 cc	Total Vol: 325.2 ci

CYLINDER HEADS

Cylinder Heads: 5.3L		
Airflow File: 5.3L heads.flw		
Intake Valves: 1	Exhaust Valves: 1	
Intake Valve: 1.890 in	Exhaust Valve: 1.550 in	

COMPRESSION

Compression Ratio: 9.50	Combustion Space: 78.36 cc
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INDUCTION

Induction Flow: 850.0 cfm @ 1.50 inHg	Fuel: Gasoline
Manifold Type: Sequential-Fire Injection	N20: 0.0 lbs/min
Blower: None	Intercooler: *** %
Flow: *** cfm	Pressure Ratio: ***
Speed: *** rpm	Boost Limit: *** psi
Eff: *** %	Surge Flow: *** cfm
	Internal Gear Ratio: ***

EXHAUST

Exhaust System: H.P. Manifolds And Mufflers

CAMSHAFT

Camshaft Type: 01 5.3L	Cam File: 01 5.3L.cam		
Lifter: Roller	Lobe Center: 114.0		
Cam Specs @: 0.050-Lift	Valve Overlap: -37.5		
Int Lift@Valve: 0.466 in	Int Duration: 190.0		
Exh Lift@Valve: 0.476 in	Exh Duration: 191.0		
Nominal Timing	Timing@ Adv(+)/Ret(-): 0.0		
IVO (BTDC): -17.0	IVC (ABDC): 27.0	IVO: -17.0	IVC: 27.0
EVO (BBDC): 31.5	EVC (ATDC): -20.5	EVO: 31.5	EVC: -20.5
ICA (ATDC): 112.0	ECA (BTDC): 116.0	ICA: 112.0	ECA: 116.0

CYLINDER HEAD AIRFLOW DATA

Description: 5.3L

Intake Valve

Test Diameter: 1.890 in
Pressure Drop: 1.0 inH2O

<u>Lift: in</u>	<u>Flow: cfm</u>
0.100	63.0
0.200	128.0
0.300	179.0
0.400	210.0
0.500	218.0
0.550	221.0
0.600	226.0
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***	***
***	***

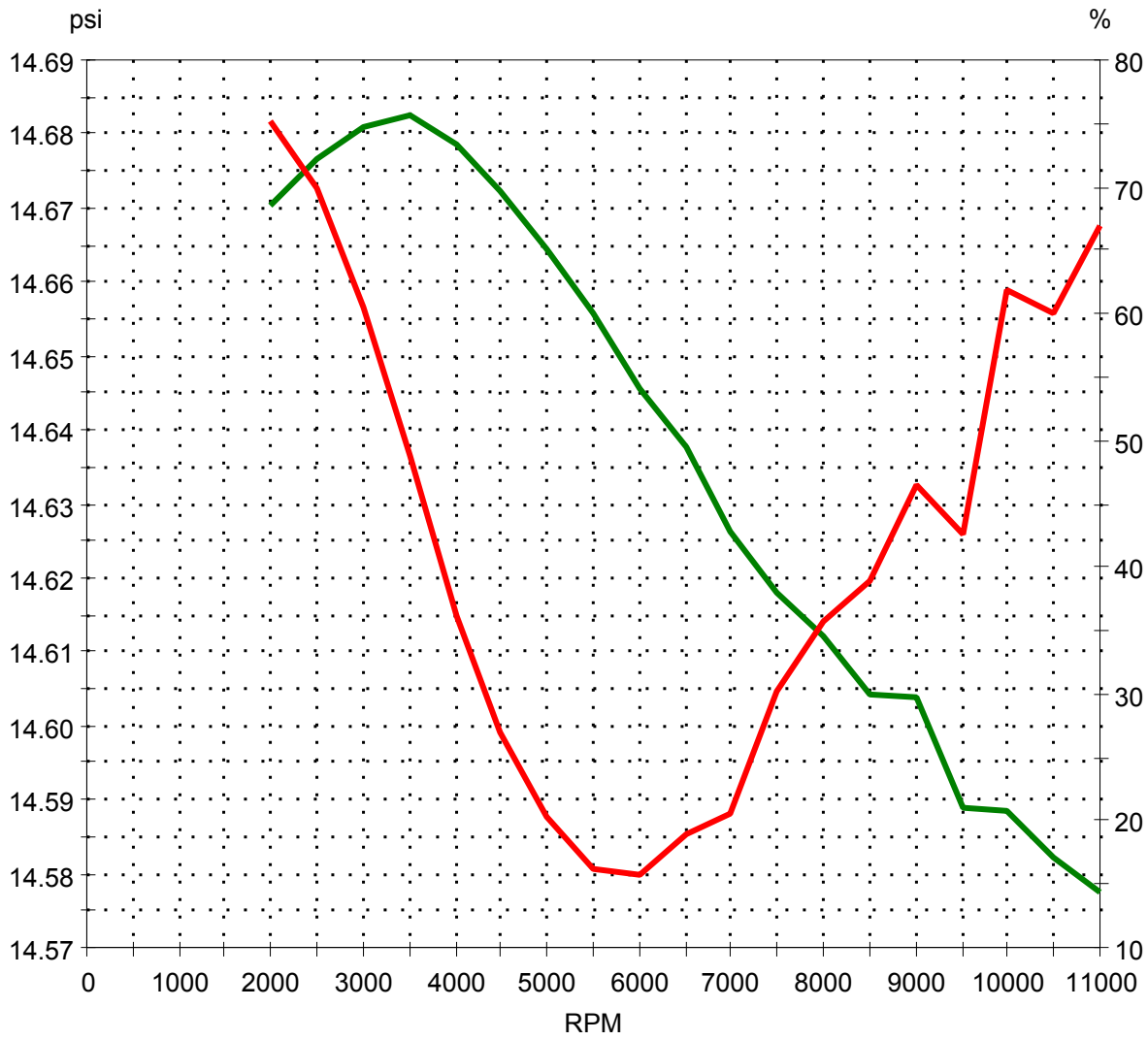
Exhaust Valve

Test Diameter: 1.550 in
Pressure Drop: 1.0 inH2O

<u>Lift: in</u>	<u>Flow: cfm</u>
0.100	54.0
0.200	93.0
0.300	121.0
0.400	145.0
0.500	163.0
0.550	168.0
0.600	174.0
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CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	IMEP Pressure	FMEP Pressure	BMEP Pressure
2000	136	358	14.68	68.5	216.1	17.6	168.2
2500	177	372	14.67	72.1	215.3	19.1	175.2
3000	217	380	14.66	74.7	216.5	20.6	178.9
3500	249	374	14.64	75.7	210.3	22.3	175.7
4000	264	347	14.61	73.3	197.1	24.1	163.2
4500	268	313	14.60	69.6	182.2	26.1	147.3
5000	262	275	14.59	65.2	165.2	28.1	129.3
5500	242	231	14.58	59.9	145.6	30.3	108.8
6000	211	185	14.58	54.1	124.7	32.6	86.9
6500	182	147	14.59	49.6	108.3	35.0	69.2
7000	125	94	14.59	42.8	84.4	37.5	44.2
7500	80	56	14.60	38.1	68.0	40.2	26.2
8000	38	25	14.61	34.7	55.5	43.0	11.8
8500	0	0	14.62	29.9	39.4	45.8	-6.1
9000	0	0	14.63	29.7	38.0	48.8	-10.2
9500	0	0	14.63	21.0	8.7	52.0	-40.9
10000	0	0	14.66	20.8	8.6	55.2	-44.0
10500	0	0	14.66	17.0	-4.5	58.6	-59.5
11000	0	0	14.67	14.4	-12.8	62.1	-70.7



— Manifold Pressure (psi)-5.3L — Volumetric Eff.(%)-5.3L

