

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 LS6	Cam File: 01 LS6.cam		
Lifter: Roller	Lobe Center: 116.0		
Cam Specs @: 0.050-Lift	Valve Overlap: -24.5		
Int Lift@Valve: 0.525 in	Int Duration: 204.0		
Exh Lift@Valve: 0.525 in	Exh Duration: 211.0		
Nominal Timing	Timing@ Adv(+)/Ret(-): -6.0		
IVO (BTDC): -12.0	IVC (ABDC): 36.0	IVO: -18.0	IVC: 42.0
EVO (BBDC): 43.5	EVC (ATDC): -12.5	EVO: 37.5	EVC: -6.5
ICA (ATDC): 114.0	ECA (BTDC): 118.0	ICA: 120.0	ECA: 112.0

CYLINDER HEAD AIRFLOW DATA

Description: 5.3L

Intake ValveTest Diameter: 1.890 in
Pressure Drop: 1.0 inH2OLift: in Flow: cfm

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 ValveTest Diameter: 1.550 in
Pressure Drop: 1.0 inH2OLift: in Flow: cfm

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

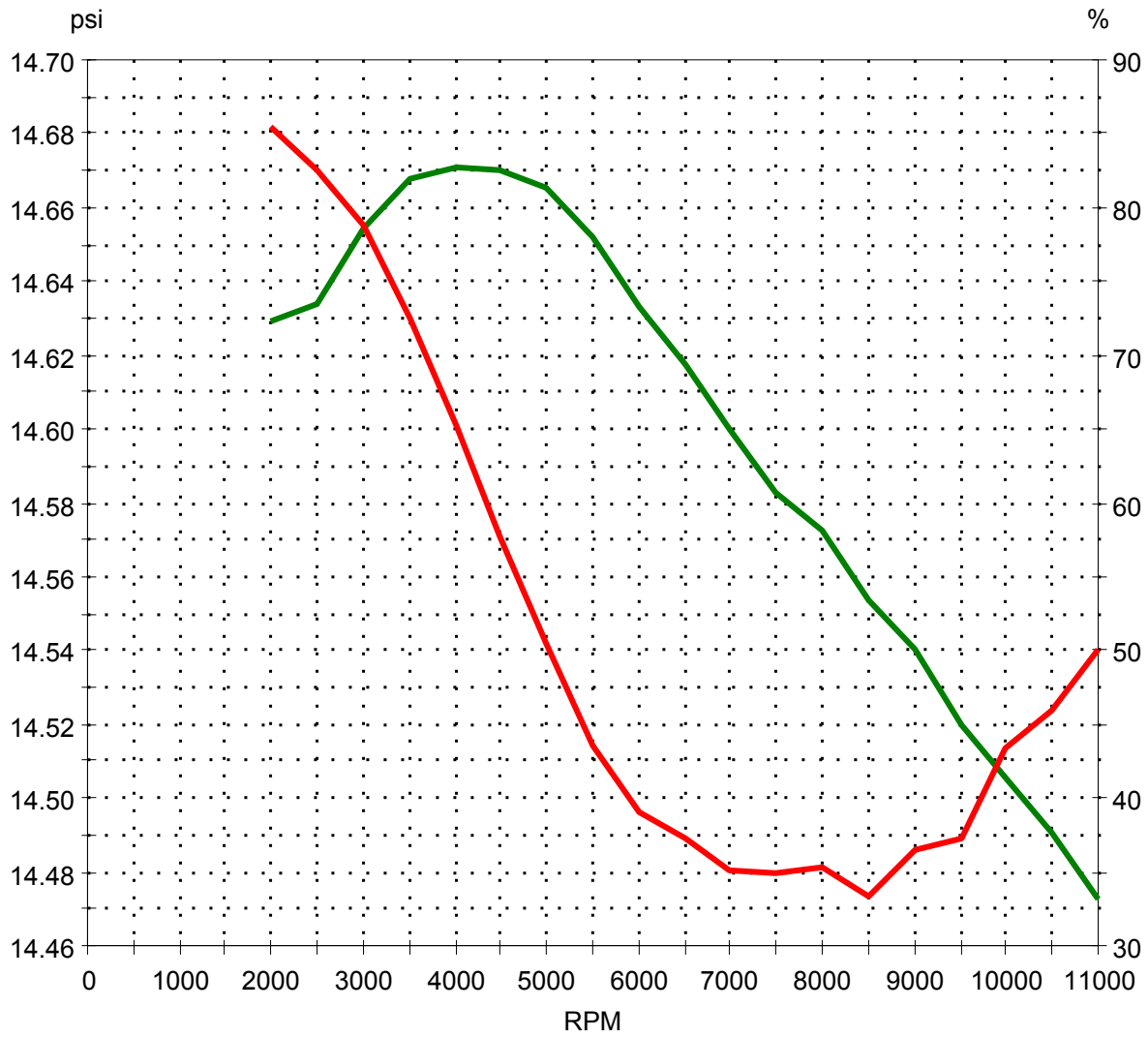
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CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	IMEP Pressure	FMEP Pressure	BMEP Pressure
2000	141	370	14.68	72.2	223.1	17.6	174.2
2500	176	370	14.67	73.4	214.0	19.1	174.1
3000	225	395	14.66	78.6	223.9	20.6	185.6
3500	268	403	14.63	81.9	225.0	22.3	189.4
4000	303	398	14.60	82.8	222.4	24.1	187.1
4500	332	387	14.57	82.6	219.0	26.1	182.0
5000	350	368	14.54	81.3	211.4	28.1	172.9
5500	352	336	14.51	78.1	197.7	30.3	157.9
6000	338	296	14.50	73.3	180.1	32.6	139.1
6500	323	261	14.49	69.4	165.2	35.0	122.8
7000	297	223	14.48	65.0	148.8	37.5	104.9
7500	269	188	14.48	60.7	134.0	40.2	88.5
8000	247	162	14.48	58.2	123.7	43.0	76.1
8500	201	124	14.47	53.4	107.7	45.8	58.3
9000	162	94	14.49	50.2	96.0	48.8	44.4
9500	95	52	14.49	44.9	78.1	52.0	24.7
10000	44	23	14.51	41.5	66.9	55.2	11.0
10500	0	0	14.52	37.7	53.4	58.6	-4.9
11000	0	0	14.54	33.1	38.2	62.1	-22.5



Manifold Pressure (psi)-5.3L w LS6 cam - 6 deg

Volumetric Eff.(%)-5.3L w LS6 cam - 6 deg

