SHORT BLOCK

Block:	Ford 302	Bore:	4.125 in	Stroke:	3.400 in
Cylinders:	8	Cyl Vol:	744.59 cc	Total Vol:	363.5 ci

CYLINDER HEADS

Cylinder Heads:	AFR 185 comp #1426		
Airflow File:	AFR 185comp 1426.flw		
Intake Valves:	1	Exhaust Valves:	1
Intake Valve:	2.020 in	Exhaust Valve:	1.600 in

COMPRESSION

Compression Ratio:	10.50	Combustion Space:	78.38 cc

INDUCTION

Induction Flow:	850.0 cfm @ 1.50 inHg			Fuel:	Gasoline
Manifold Type:	Sequential-Fire Injection			N20:	0.0 lbs/min
Blower:	Centrifugal- Vortech V2-S			Intercooler:	*** %
Flow:	650.0 cfm	Pressure Ratio:	1.55	Boost Limit:	10.0 psi
Speed:	33000 rpm	Belt Gear Ratio:	2.20	Surge Flow:	*** cfm
Eff:	73.0 %	Internal Gear Ratio:	3.45		

EXHAUST

Exhaust System:	Large-Tube Headers With Mufflers

CAMSHAFT

Camshaft Type:	High Performance Street	Cam File:	351w_449561_Lloyd.cam
Lifter:	Roller	Lobe Center:	112.0
Cam Specs @:	0.050-Lift	Valve Overlap:	12.0
Int Lift@Valve:	0.563 in	Int Duration:	232.0
Exh Lift@Valve:	0.584 in	Exh Duration:	240.0
Nominal Timing		Timing@ Adv(+)/Ret(-):	0.0

IVO (BTDC):	9.0	IVC (ABDC):	43.0	IVO:	9.0	IVC:	43.0
EVO (BBDC):	57.0	EVC (ATDC):	3.0	EVO:	57.0	EVC:	3.0
ICA (ATDC):	107.0	ECA (BTDC):	117.0	ICA:	107.0	ECA:	117.0

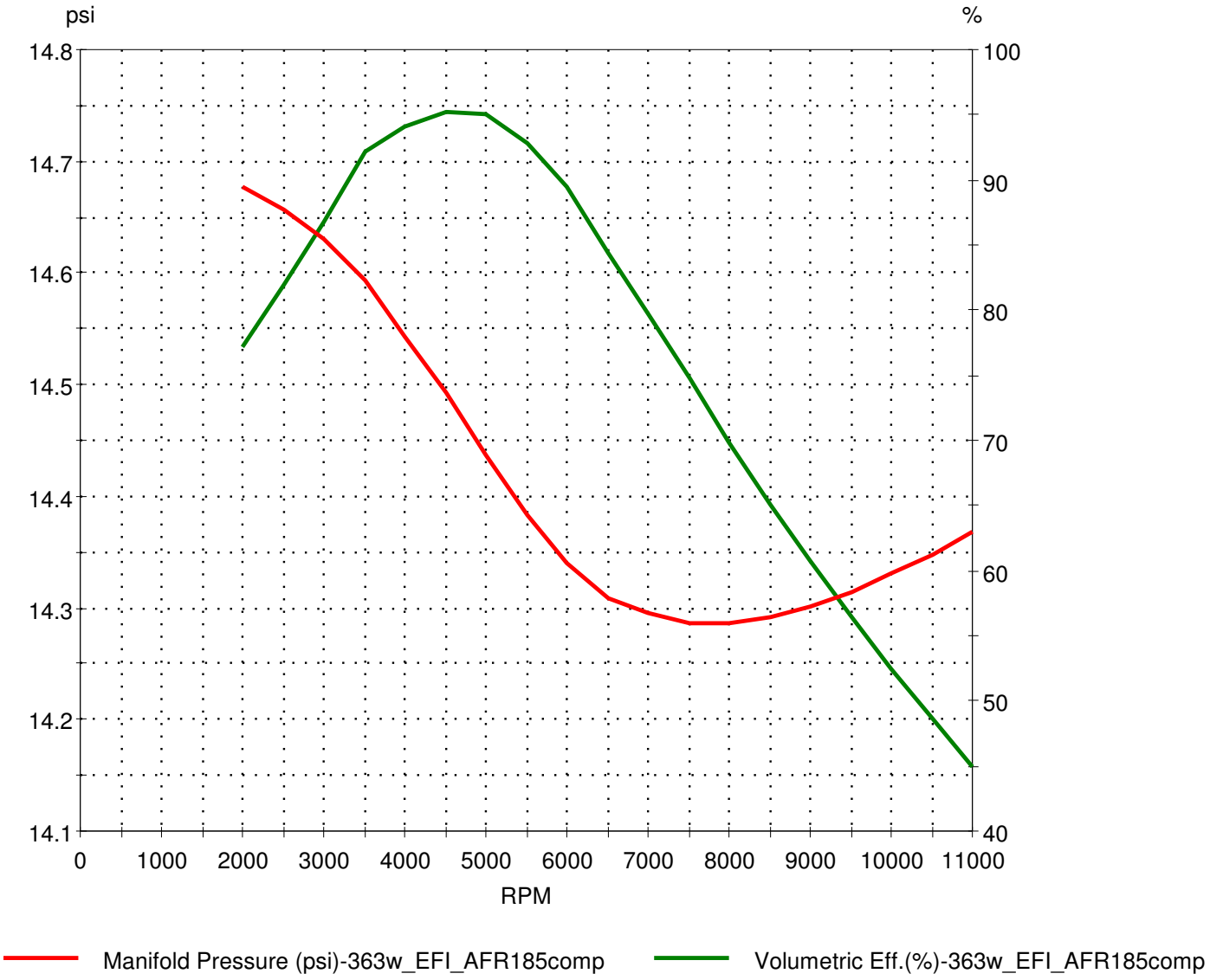
CYLINDER HEAD AIRFLOW DATA

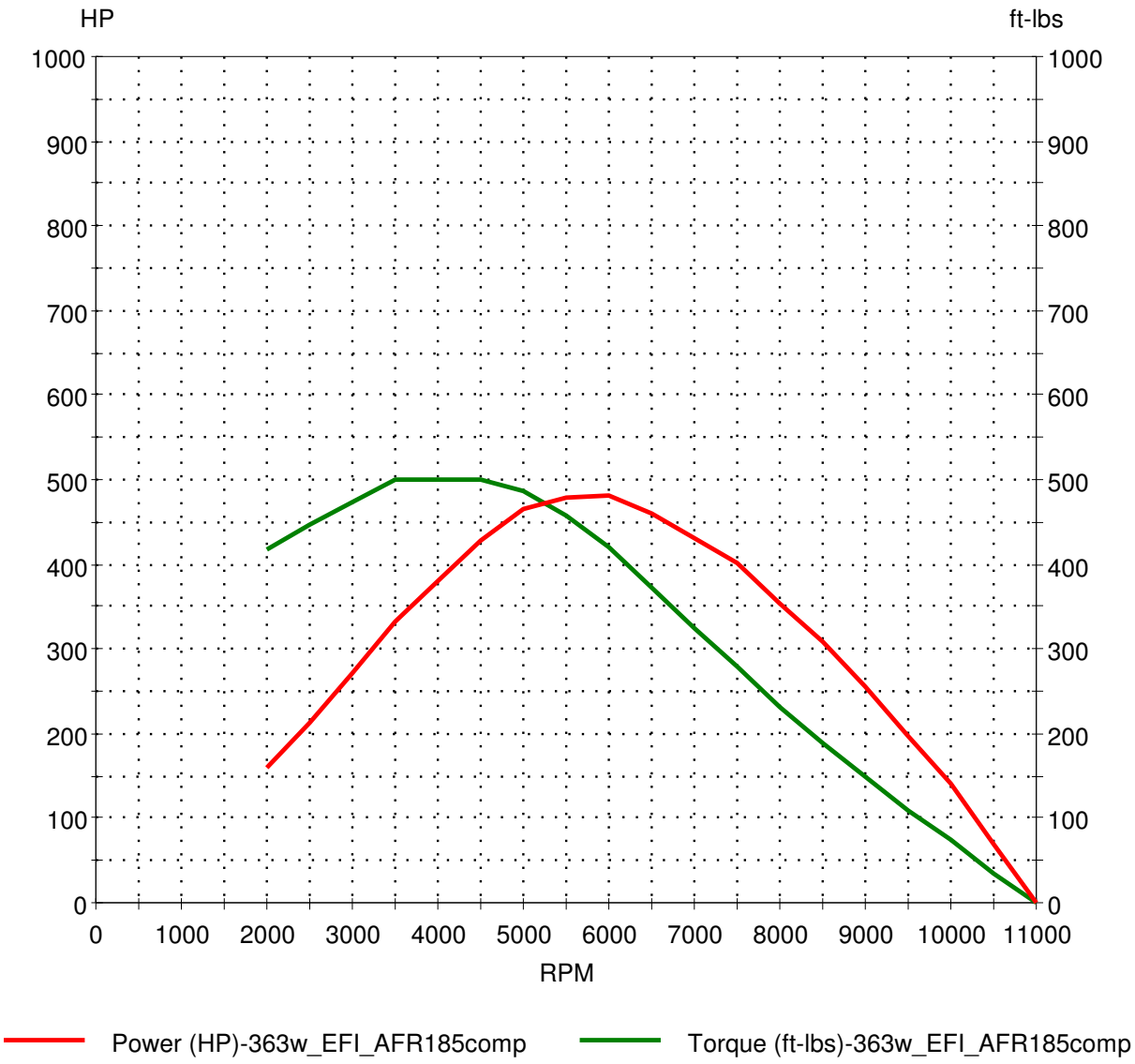
Description: AFR 185 comp #1426

Intake Valve		Exhaust Valve	
Test Diameter:	2.020 in	Test Diameter:	1.600 in
Pressure Drop	28.0 inH2O	Pressure Drop	28.0 inH2O
Lift: in	Flow: cfm	Lift: in	Flow: cfm
0.100	66.0	0.100	59.0
0.200	148.0	0.200	113.0
0.300	202.0	0.300	162.0
0.400	242.0	0.400	199.0
0.500	274.0	0.500	215.0
0.600	286.0	0.600	222.0
0.700	296.0	0.700	227.0
***	***	***	***
***	***	***	***
***	***	***	***

CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	IMEP Pressure	FMEP Pressure	BMEP Pressure
2000	159	418	14.68	77.3	224.9	17.3	175.9
2500	212	446	14.66	81.9	228.6	18.6	187.5
3000	271	473	14.63	86.8	238.2	20.0	199.2
3500	332	499	14.59	92.2	246.1	21.6	209.8
4000	382	501	14.54	94.1	246.6	23.2	210.7
4500	428	500	14.49	95.1	247.8	25.0	210.2
5000	464	487	14.44	95.1	244.2	26.9	205.1
5500	478	457	14.38	92.7	232.4	28.8	192.1
6000	480	420	14.34	89.5	218.4	30.9	176.9
6500	460	371	14.31	84.4	198.7	33.1	156.3
7000	431	324	14.30	79.7	179.6	35.4	136.1
7500	400	280	14.29	74.7	162.7	37.7	117.9
8000	353	232	14.29	69.8	143.7	40.2	97.6
8500	308	190	14.29	65.1	127.6	42.8	80.0
9000	255	149	14.30	60.7	111.9	45.5	62.6
9500	196	109	14.31	56.4	96.8	48.3	45.7
10000	140	74	14.33	52.5	84.1	51.3	31.0
10500	69	35	14.35	48.6	69.8	54.3	14.6
11000	1	1	14.37	45.0	57.6	57.4	0.2


psi
%
14.8
14.7
14.6
14.5
14.4
14.3
14.2
14.1
100
90
80
70
60
50
40
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
RPM
Manifold Pressure (psi)-363w_EFI_AFR185comp
Volumetric Eff.(%)-363w_EFI_AFR185comp


HP
ft-lbs
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
RPM
Power (HP)-363w_EFI_AFR185comp
Torque (ft-lbs)-363w_EFI_AFR185comp