

Bonneville Pro - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: roadster.dat

Note: test case for Bonneville Pro 3.2

General Data

Elevation - feet 4500
 Barometer - in Hg 29.92
 Temperature - deg F 76
 Relative Humidity - % 50
 Wind Velocity - MPH 0.0
 Wind Angle - degs 0

 Track: Bonneville - 3 Miles
 Traction Index 6

Vehicle Data

Weight - lbs 2350
 Wheelbase - inches 125

Engine Dyno Data

RPM	HP	Torque
6400	5560	4563
6600	5734	4563
6800	5733	4428
7000	5581	4188
7200	5299	3865
7400	4858	3448
7600	4302	2973
7800	3630	2444
10500	73	37
11000	74	35
11500	73	33

Fuel System:

Supercharged Nitro

HP/Torque Multiplier 0.960

Transmission Data

Clutch:
 Slip RPM 6400
 Clutch Slippage 1.000
 Lock-up option? No

Gear	Ratio	Eff	Shift@
2nd -	1.25	0.800	7000
3rd -	1.00	0.990	100

Final Drive Data

Gear Ratio 2.10
 Efficiency 0.960
 Tire Rollout - inches 113.0
 Tire Width - inches 10.00

Aerodynamic Data

Frontal Area - sq ft 24.1
 Drag Coefficient 0.580
 Lift Coefficient 0.800

Time	Distance	MPH	Acceleration	Gear	RPM
0.00	0.00	0.0	1.48 (s)	1	6,400
2.00	0.02	71.3	1.47	1	6,400
2.88	0.04	100.0	1.47 (s)	1	6,400
4.00	0.08	135.8	1.46 (s)	1	6,400
6.00	0.17	196.3	1.35 (s)	1	6,400
6.13	0.18	200.0	1.34 (s)	1	6,400
8.00	0.30	252.2	1.12	1	6,460
9.01	0.37	273.7	0.80	1	7,000
9.21	0.39	277.8	0.92	2	6,400
10.00	0.45	292.7	0.81	2	6,400
10.63	0.50	303.2	0.72	2	6,400
12.00	0.62	322.2	0.55	2	6,580
14.00	0.80	339.7	0.27	2	6,930
16.00	0.99	347.3	0.10	2	7,080
16.05	1.00	347.4	0.10	2	7,080
18.00	1.19	350.1	0.04	2	7,140
20.00	1.38	351.1	0.01	2	7,160
21.19	1.50	351.3	0.01	2	7,160
22.00	1.58	351.4	0.00	2	7,160
24.00	1.77	351.6	0.00	2	7,170
26.00	1.97	351.8	0.00	2	7,170
26.31	2.00	351.8	0.00	2	7,170
28.00	2.16	352.0	0.00	2	7,170
28.87	2.25	352.1	0.00	2	7,180
30.00	2.36	352.2	0.00	2	7,180
31.43	2.50	352.3	0.00	2	7,180
32.00	2.56	352.3	0.00	2	7,180
33.98	2.75	352.5	0.00	2	7,180
34.00	2.75	352.5	0.00	2	7,180
36.00	2.95	352.7	0.00	2	7,190
36.53	3.00	352.7	0.00	2	7,190