

QUARTER jr - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

Note: test case for QUARTER jr

Torque Converter

Elevation - feet	1200
Barometer - in Hg	29.92
Temperature - deg F	88
Relative Humidity - %	35

Stall RPM	5500
Lock-up option?	No
Diameter - inches	8

Weight - lbs	1450
Rollout - inches	10
Wheelbase - inches	225
Body Style: dragster	
Frontal Area - sq ft	14.7

Transmission Gear Ratios

Fuel System:	Methanol Carburetor
Displacement	- CID 355
RPM@ Peak HP	6700
Peak HP	430
Shift@ RPM	7200

2nd	-	1.82
3rd	-	1.00

Final Drive

Gear Ratio	4.86
Tire Diameter - inches	32.4
Tire Width - inches	12.30
Traction Index	5

Tire Width Worksheet

Maximum Width - inches	60.0
Maximum Height - inches	44.0
Shape Factor - %	80.0

Tread Width - inches	12.30
Number of Grooves	0
Each Groove Width - inches	0.000

Frontal Area - sq ft = 14.7

Effective Tire Width = 12.30

Time	Distance	MPH	Acceleration	Gear	RPM
0.00	0.00	0.00	0.00	1	0
0.05	0.00	0.00	0.00	1	0
0.10	0.00	0.00	0.00	1	0
0.15	0.00	0.00	0.00	1	0
0.20	0.00	0.00	0.00	1	0
0.25	0.00	0.00	0.00	1	0
0.30	0.00	0.00	0.00	1	0
0.35	0.00	0.00	0.00	1	0
0.40	0.00	0.00	0.00	1	0
0.45	0.00	0.00	0.00	1	0
0.50	0.00	0.00	0.00	1	0
0.55	0.00	0.00	0.00	1	0
0.60	0.00	0.00	0.00	1	0
0.65	0.00	0.00	0.00	1	0
0.70	0.00	0.00	0.00	1	0
0.75	0.00	0.00	0.00	1	0
0.80	0.00	0.00	0.00	1	0
0.85	0.00	0.00	0.00	1	0
0.90	0.00	0.00	0.00	1	0
0.95	0.00	0.00	0.00	1	0
1.00	0.00	0.00	0.00	1	0
1.05	0.00	0.00	0.00	1	0
1.10	0.00	0.00	0.00	1	0
1.15	0.00	0.00	0.00	1	0
1.20	0.00	0.00	0.00	1	0
1.25	0.00	0.00	0.00	1	0
1.30	0.00	0.00	0.00	1	0
1.35	0.00	0.00	0.00	1	0
1.40	0.00	0.00	0.00	1	0
1.45	0.00	0.00	0.00	1	0
1.50	0.00	0.00	0.00	1	0
1.55	0.00	0.00	0.00	1	0
1.60	0.00	0.00	0.00	1	0
1.65	0.00	0.00	0.00	1	0
1.70	0.00	0.00	0.00	1	0
1.75	0.00	0.00	0.00	1	0
1.80	0.00	0.00	0.00	1	0
1.85	0.00	0.00	0.00	1	0
1.90	0.00	0.00	0.00	1	0
1.95	0.00	0.00	0.00	1	0
2.00	0.00	0.00	0.00	1	0
2.05	0.00	0.00	0.00	1	0
2.10	0.00	0.00	0.00	1	0
2.15	0.00	0.00	0.00	1	0
2.20	0.00	0.00	0.00	1	0
2.25	0.00	0.00	0.00	1	0
2.30	0.00	0.00	0.00	1	0
2.35	0.00	0.00	0.00	1	0
2.40	0.00	0.00	0.00	1	0
2.45	0.00	0.00	0.00	1	0
2.50	0.00	0.00	0.00	1	0
2.55	0.00	0.00	0.00	1	0
2.60	0.00	0.00	0.00	1	0
2.65	0.00	0.00	0.00	1	0
2.70	0.00	0.00	0.00	1	0
2.75	0.00	0.00	0.00	1	0
2.80	0.00	0.00	0.00	1	0
2.85	0.00	0.00	0.00	1	0
2.90	0.00	0.00	0.00	1	0
2.95	0.00	0.00	0.00	1	0
3.00	0.00	0.00	0.00	1	0
3.05	0.00	0.00	0.00	1	0
3.10	0.00	0.00	0.00	1	0
3.15	0.00	0.00	0.00	1	0
3.20	0.00	0.00	0.00	1	0
3.25	0.00	0.00	0.00	1	0

0.00	0	0.0	2.23	1	5,500
0.139/0.00	Rollout	7.8	2.31	1	5,500
0.50	18	30.5	1.80	1	5,500
0.73	30	38.9	1.58	1	5,650
1.00	47	47.8	1.44	1	5,800
1.17	60	53.1	1.34	1	5,890
1.44	82	60.0	1.04	1	6,250
1.50	87	61.2	0.99	1	6,380
1.91	127	69.7	0.89	1	7,200
2.16	154	75.0	0.93	2	5,660
2.50	192	80.9	0.77	2	5,710
3.00	255	89.0	0.71	2	5,780
3.50	323	96.6	0.66	2	5,850
3.55	330	97.3	0.66	2	5,860
3.74	358	100.0	0.64	2	5,880
4.00	396	103.5	0.63	2	5,910
4.50	475	109.9	0.54	2	6,040
5.00	557	115.7	0.51	2	6,320
5.50	644	121.0	0.48	2	6,570
5.59	660	122.0	0.47	2	6,610
6.00	735	126.0	0.44	2	6,800
6.50	828	130.5	0.40	2	7,000
7.00	926	134.7	0.36	2	7,170
7.37	1000	137.5	0.35	2	7,290
7.50	1026	138.4	0.32	2	7,330
8.00	1129	141.8	0.28	2	7,450
8.50	1234	144.8	0.25	2	7,560
8.90	1320	147.0	0.23	2	7,640

1/8 Mile: 5.59 sec @ 120.0 MPH 1/4 Mile: 8.90 sec @ 146.2 MPH