

QUARTER jr - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: exp.dat

Note: test case for QUARTER jr

General		Torque Converter		Vehicle	
Elevation - feet	680	Stall RPM	6900	Weight - lbs	2250
Barometer - in Hg	29.92	Lock-up option?	No	Rollout - inches	14
Temperature - deg F	86	Diameter - inches	8	Wheelbase - inches	102
Relative Humidity - %	60			Body Style: sedan	
Engine		Transmission Gear Ratios		Frontal Area - sq ft	26.1
Fuel System: Gasoline Carburetor		2nd -	1.80		
Displacement - CID	460	3rd -	1.00		
RPM@ Peak HP	7200			Final Drive	
Peak HP	850			Gear Ratio	4.86
Shift@ RPM	7900			Tire Diameter - inches	33.0
				Tire Width - inches	17.00
				Traction Index	6

Frontal Area Worksheet

Maximum Width - inches 72.0
 Maximum Height - inches 58.0
 Shape Factor - % 90.0

 Frontal Area - sq ft = 26.1

Tire Width Worksheet

Tread Width - inches 12.00
 Number of Grooves 8
 Each Groove Width - inches 0.250

 Effective Tire Width = 10.00

1.108	Time	Distance	MPH	Acceleration	Gear	RPM
	0.00	0	0.0	2.35	1	6,900
	0.159/0.00	Rollout	9.5	2.48	1	6,900
	0.50	20	34.4	2.03	1	6,900
	0.68	30	41.8	1.81	1	6,940
	1.00	53	54.0	1.61	1	7,130
	1.09	60	57.0	1.56	1	7,180
	1.18	68	60.0	1.50	1	7,220
	1.50	99	70.0	1.33	1	7,370
	1.88	141	79.4	0.92	1	7,900
	2.13	171	84.9	0.96	2	6,990
	2.50	218	92.0	0.86	2	7,040
	2.95	281	100.0	0.79	2	7,100
	3.00	289	100.9	0.79	2	7,110
	3.27	330	105.5	0.77	2	7,150
	3.50	366	109.3	0.73	2	7,170
	4.00	449	117.0	0.68	2	7,230
	4.50	538	124.1	0.62	2	7,280
	5.00	631	130.6	0.59	2	7,330
	5.15	660	132.5	0.56	2	7,340
	5.50	729	136.7	0.53	2	7,370
	6.00	832	142.4	0.50	2	7,410
	6.50	938	147.5	0.44	2	7,520
	6.78	1000	150.2	0.42	2	7,610
	7.00	1048	152.1	0.41	2	7,680
	7.50	1161	156.2	0.36	2	7,820
	8.00	1277	159.9	0.32	2	7,940
	8.18	1320	161.2	0.31	2	7,970

1/8 Mile: 5.15 sec @ 130.3 MPH 1/4 Mile: 8.18 sec @ 160.2 MPH