

QUARTER Pro - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: supergas.dat

Note: test case for QUARTER Pro version 3.2

General Data		Engine Dyno Data			Transmission Data			
Elevation - feet	850	RPM	HP	Torque	Torque Converter:			
Barometer - in Hg	29.92	3500	267	401	Launch@ RPM	5000		
Temperature - deg F	77	4500	351	410	Stall RPM	5500		
Relative Humidity - %	30	5500	432	413	Converter Slippage	1.060		
Wind Velocity - MPH	0.0	6500	491	397	Lock-up option?	No		
Wind Angle - degs	0	7000	500	375	Torque Multiplication	1.70		
-----		7500	468	328				
Track Temp - deg F	102	8000	421	276	Gear	Ratio	Eff	Shift@
Traction Index	5	10000	72	38	2nd -	1.76	0.970	7600
		10500	73	37	3rd -	1.00	0.990	100
		11000	73	35				
		11500	72	33				
Vehicle Data		Fuel System:						
Weight - lbs	2300	Gasoline Carburetor						
Wheelbase - inches	103	HP/Torque Multiplier			1.000			
Rollout - inches	12							
Overhang - inches	30							

Final Drive Data		Aerodynamic Data		Polar Moments of Inertia	
Gear Ratio	5.14	Frontal Area - sq ft	22.1	Engine+Flexplate+Converter	3.26
Efficiency	0.970	Drag Coefficient	0.400	Transmission + Driveshaft	0.511
Tire Diameter - inches	32.4	Lift Coefficient	0.250	Tires + Wheels + Ring Gear	52.7
Tire Width - inches	14.40				

1.075	Time	Distance	MPH	Acceleration	Gear	RPM
	0.00	0	0.0	1.62	1	5,000
0.185/0.00	Rollout		7.2	1.64	1	5,500
	0.50	16	24.0	1.38	1	5,500
	0.84	30	33.6	1.20	1	5,550
	1.00	38	37.8	1.13	1	5,630
	1.35	60	46.1	1.05	1	5,780
	1.50	71	49.5	0.99	1	5,840
	2.00	111	59.4	0.77	1	6,230
	2.03	114	60.0	0.81	1	6,280
	2.50	157	67.7	0.73	1	7,040
	2.91	199	73.5	0.61	1	7,600
	3.16	227	77.3	0.67	2	5,720
	3.50	267	81.5	0.55	2	5,750
	4.00	329	87.4	0.52	2	5,810
	4.01	330	87.5	0.53	2	5,810
	4.50	395	92.9	0.49	2	5,860
	5.00	465	98.2	0.46	2	5,910
	5.18	492	100.0	0.45	2	5,930
	5.50	539	103.1	0.44	2	5,960
	6.00	616	107.7	0.41	2	6,140
	6.27	660	110.0	0.41	2	6,260
	6.50	697	112.0	0.39	2	6,360
	7.00	781	116.2	0.37	2	6,570
	7.50	867	120.2	0.35	2	6,760
	8.00	957	124.0	0.34	2	6,940
	8.23	1000	125.7	0.33	2	7,020
	8.50	1049	127.5	0.32	2	7,100
	9.00	1144	130.8	0.29	2	7,250
	9.50	1241	133.8	0.26	2	7,370
	9.90	1320	136.0	0.24	2	7,460

1/8 Mile: 6.27 sec @ 108.2 MPH 1/4 Mile: 9.90 sec @ 135.1 MPH