



3745 Hwy 79 South Paris, TN 38242

731-336-6899

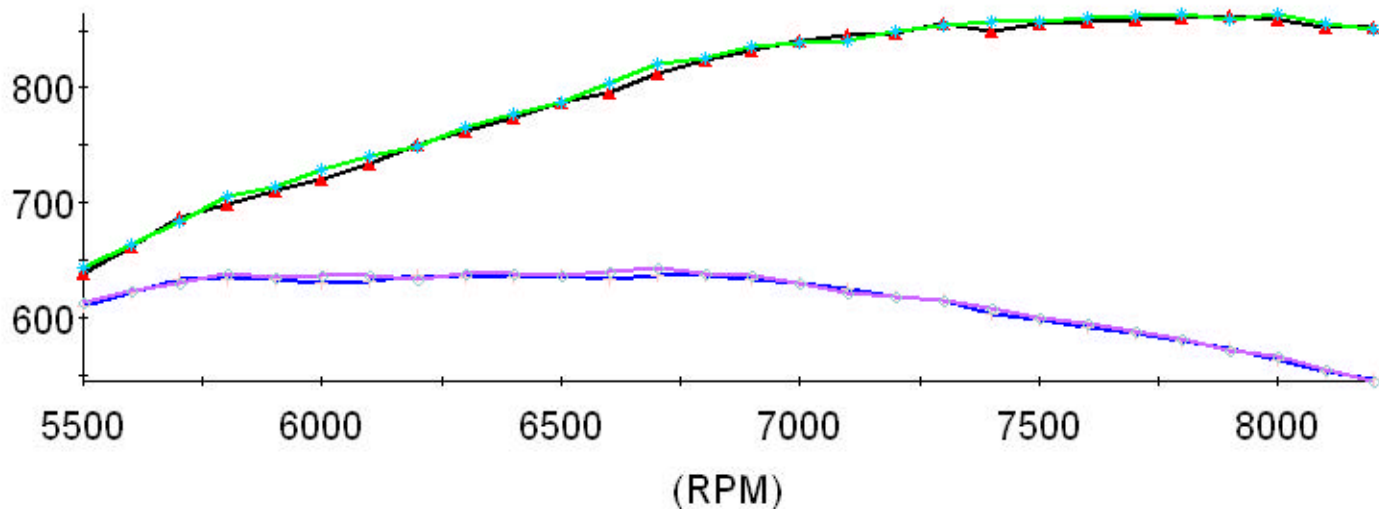
Customer / Test Information

Customer: ROBERT HOLLINGSWORTH **Test Date:** 09/27/08 **Engine:** 436 SBC 18 DEG DRAG
Address: 123 HORSE POWER PLACE **City/State:** PARIS, TN 38242 **Hm Phone:** 555-555-5555
Cell Phone: 555-555-5555 **Inertia Factor:** .27 **Rate:** 12

Engine Specifications

Brand: SBC **C.I.D.:** 436 **Compression:** 15.75
Fuel: VP Q16 Stoich 13.43:1 **Final Timing:** 34 **Carb Type / Size:** 1050 CFM - ULTRA HP
Intake: 2858 SUPER VICTOR **Head Type:** 18 deg TRICK FLOW **Cam Specs:** 278/296 .842/.780 115 LSA 113 ICL
Header Size: 2" - 2 1/8" - 2 1/4" STEP - 29" PRIMARY **Collector Size:** 4" MERGE **Muffler Size:** N/A

Corrected Performance Graph



▲ CorrHP(Hp) 21
 ★ CorrHP(Hp) 22
 ■ CorrTorq(ft-lbs) 21
 ◆ CorrTorq(ft-lbs) 22

Power & Torque Peaks

Peak CorrHP(21) 862.2 **at peak CorrHP(21)** 7900 **Peak CorrTorq(21)** 637.1 **at peak CorrTorq(21)** 6700
Peak CorrHP(22) 864.2 **at peak CorrHP(22)** 7800 **Peak CorrTorq(22)** 643.1 **at peak CorrTorq(22)** 6700

Power / Torque Averages / ET

Average CorrHP(21) 796.3 **Average CorrTorq(21)** 613.1 **Delta Elapsed Time(21)** 4.84
Average CorrHP(22) 798.7 **Average CorrTorq(22)** 615.0 **Delta Elapsed Time(22)** 4.88

Corr Factor

Average CorrFactor(21) 106.0 Average CorrFactor(22) 105.8

Weather Condition Averages

Average AirDensity(21) 0.071955 Average Humidity(21) 29.6 Average Air Temp(21) 78.4 Average Barometer(21) 29.28

Average AirDensity(22) 0.072147 Average Humidity(22) 32.1 Average Air Temp(22) 77.1 Average Barometer(22) 29.29

Performance Spreadsheet

(RPM)	CorrTorq (ft-lbs)		CorrHP (Hp)		Vacuum (in Hg)		BSFC (lbs/Hp-hr)		VoIEff (%)	
	21	22	21	22	21	22	21	22	21	22
5500	610.3	614.4	639.1	643.5	-17.34	-16.88	0.401	0.393	97.66	98.47
5600	621.3	623.2	662.4	664.5	-17.43	-16.94	0.382	0.408	99.79	99.94
5700	633.1	629.8	687.1	683.5	-17.5	-16.94	0.389	0.400	100.40	99.72
5800	633.4	638.3	699.4	704.9	-17.5	-16.97	0.385	0.385	100.89	100.22
5900	633.1	635.3	711.2	713.6	-17.46	-16.97	0.390	0.384	100.17	100.20
6000	631.2	637.7	721.1	728.6	-17.59	-17.0	0.382	0.386	99.96	100.38
6100	632.0	637.1	734.0	740.0	-17.62	-17.0	0.371	0.386	99.76	100.87
6200	636.4	634.4	751.3	748.9	-17.65	-17.06	0.383	0.388	100.14	100.94
6300	636.1	637.9	763.0	765.2	-17.68	-17.06	0.413	0.393	101.09	100.76
6400	635.3	638.3	774.2	777.8	-17.68	-17.09	0.386	0.378	101.56	101.88
6500	636.7	636.4	787.9	787.6	-17.71	-17.12	0.388	0.392	101.25	102.32
6600	633.0	640.2	795.5	804.5	-17.71	-17.12	0.403	0.373	102.10	103.32
6700	637.1	643.1	812.8	820.4	-17.65	-17.12	0.392	0.375	103.28	103.89
6800	637.1	638.5	824.9	826.6	-17.68	-17.19	0.391	0.395	103.51	104.20
6900	633.8	636.6	832.7	836.3	-17.68	-17.12	0.391	0.397	104.09	104.49
7000	630.5	630.2	840.4	840.0	-17.65	-17.0	0.385	0.396	105.75	104.32
7100	625.6	622.3	845.7	841.3	-17.56	-16.85	0.390	0.414	104.75	103.84
7200	618.6	619.3	848.0	849.0	-17.4	-16.85	0.425	0.437	103.86	103.76
7300	615.5	614.9	855.6	854.7	-17.22	-16.72	0.425	0.413	103.40	103.01
7400	602.9	609.1	849.5	858.3	-17.06	-16.57	0.420	0.407	102.09	102.47
7500	599.3	600.1	855.9	856.9	-16.82	-16.23	0.464	0.416	101.76	102.22
7600	592.1	595.1	856.8	861.1	-16.54	-15.98	0.415	0.421	100.96	101.37
7700	586.6	588.5	860.0	862.8	-16.2	-15.58	0.397	0.425	101.11	100.87
7800	580.1	581.9	861.5	864.2	-15.95	-15.18	0.423	0.425	99.54	99.76
7900	573.2	571.5	862.2	859.6	-15.64	-14.84	0.405	0.410	98.55	99.11
8000	563.7	567.1	858.6	863.8	-15.18	-14.56	0.420	0.407	99.44	97.88
8100	553.2	554.5	853.2	855.2	-14.81	-14.22	0.430	0.426	97.17	97.53
8200	546.3	545.2	852.9	851.2	-14.19	-13.51	0.453	0.431	96.61	95.40

Air & Fuel Tables

Average BSFC(21) 0.404 **Low BSFC(21)** 0.371 **Average BSFC(22)** 0.402 **Low BSFC(22)** 0.373

Average Lambda(21) 0.844 **Peak Lambda(21)** 0.884 **Average VolEff(21)** 101.09 **Peak VolEff(21)** 105.75

Average Lambda(22) 0.849 **Peak Lambda(22)** 0.888 **Average VolEff(22)** 101.18 **Peak VolEff(22)** 104.49

Air & Fuel SpreadSheet

(RPM)	BSFC (lbs/Hp-hr)		Lambda ()		AFR (:1)		AirFlow (CFM)		FuelFlow (gal/hr)	
	21	22	21	22	21	22	21	22	21	22
5500	0.401	0.393	0.769	0.784	11.87	12.14	678	683	40	40
5600	0.382	0.408	0.767	0.785	12.50	11.70	705	706	40	43
5700	0.389	0.400	0.795	0.800	12.13	11.79	722	717	42	43
5800	0.385	0.385	0.808	0.813	12.30	12.14	738	733	43	43
5900	0.390	0.384	0.806	0.818	12.06	12.23	746	746	44	43
6000	0.382	0.386	0.827	0.821	12.34	12.14	757	760	43	45
6100	0.371	0.386	0.823	0.817	12.65	12.20	768	776	43	45
6200	0.383	0.388	0.836	0.835	12.21	12.23	783	790	45	46
6300	0.413	0.393	0.844	0.842	11.45	11.98	803	801	50	48
6400	0.386	0.378	0.847	0.859	12.31	12.58	820	823	47	46
6500	0.388	0.392	0.845	0.849	12.20	12.21	830	839	48	49
6600	0.403	0.373	0.841	0.847	11.90	12.90	850	860	51	47
6700	0.392	0.375	0.847	0.870	12.32	12.84	873	878	50	49
6800	0.391	0.395	0.858	0.872	12.36	12.31	888	894	51	52
6900	0.391	0.397	0.860	0.881	12.51	12.33	906	910	51	52
7000	0.385	0.396	0.878	0.881	12.95	12.45	934	921	51	53
7100	0.390	0.414	0.883	0.888	12.77	12.01	938	930	52	55
7200	0.425	0.437	0.878	0.880	11.74	11.41	943	942	57	59
7300	0.425	0.413	0.867	0.888	11.75	12.07	952	949	57	56
7400	0.420	0.407	0.855	0.853	12.00	12.31	953	957	56	55
7500	0.464	0.416	0.884	0.871	10.88	12.18	963	967	63	56
7600	0.415	0.421	0.856	0.866	12.22	12.06	968	972	56	57
7700	0.397	0.425	0.865	0.859	12.91	12.02	982	980	54	58
7800	0.423	0.425	0.859	0.847	12.08	12.02	980	982	58	58
7900	0.405	0.410	0.858	0.853	12.62	12.61	982	988	55	56
8000	0.420	0.407	0.849	0.860	12.51	12.64	1004	988	57	56
8100	0.430	0.426	0.857	0.863	12.14	12.29	993	997	58	58
8200	0.453	0.431	0.866	0.864	11.62	12.36	999	987	61	57

Test Notes / Changes

- 1 TOP SECRET !!!!! 2 TOP SECRET !!!!! 3 TOP SECRET !!!!! 4 TOP SECRET !!!!!
 5 TOP SECRET !!!!! 6 TOP SECRET !!!!! 7 TOP SECRET !!!!! 8 TOP SECRET !!!!!
 9 TOP SECRET !!!!! 10 TOP SECRET !!!!! 11 TOP SECRET !!!!! 12 TOP SECRET !!!!!
 13 TOP SECRET !!!!! 14 TOP SECRET !!!!! 15 TOP SECRET !!!!! 16 TOP SECRET !!!!!
 17 TOP SECRET !!!!! 18 TOP SECRET !!!!! 19 MORE POWER 20 ROCKET SCIENCE
 21 Say BYE BYE !!!! 22 SEE YOU IN MY REAR VIEW MIRROR

Fluids Spread Sheet

(RPM)	Fuel Press 2 (PSI)		Eng. Oil P 1 (PSI)		Oil temp 1 (°F)		Water Temp T2 (°F)		Dyno Water (°F)	
	21	22	21	22	21	22	21	22	21	22
5500	7.5	7.5	41.0	42.1	152	154	143	146	100	101
5600	7.4	7.5	41.1	42.2	152	154	143	146	100	102
5700	7.4	7.5	41.2	42.3	152	154	143	146	100	102
5800	7.4	7.4	41.5	42.5	152	154	143	146	101	103
5900	7.4	7.5	41.9	42.7	152	154	143	146	102	103
6000	7.4	7.5	42.1	42.9	152	154	143	146	103	104
6100	7.4	7.4	42.2	43.0	152	154	143	146	104	105
6200	7.4	7.5	42.4	43.2	152	154	143	146	105	105
6300	7.4	7.5	42.6	43.2	152	154	143	146	105	106
6400	7.4	7.4	42.6	43.2	152	154	143	146	106	107
6500	7.4	7.4	42.6	43.1	152	154	143	146	107	108
6600	7.4	7.4	42.5	43.1	152	155	144	146	108	109
6700	7.4	7.4	42.5	43.0	152	155	144	146	108	110
6800	7.4	7.4	42.6	42.9	152	155	144	147	109	110
6900	7.4	7.4	42.7	43.0	153	155	144	147	110	111
7000	7.4	7.4	42.9	43.2	153	155	144	147	111	111
7100	7.4	7.4	43.1	43.4	153	155	144	147	111	112
7200	7.4	7.5	43.5	43.9	153	155	144	147	112	113
7300	7.4	7.4	44.2	44.5	153	155	144	147	112	113
7400	7.4	7.5	44.8	44.8	153	155	144	147	113	114
7500	7.4	7.5	45.3	45.2	153	155	144	147	113	114
7600	7.4	7.5	45.9	45.7	153	156	144	148	114	114
7700	7.4	7.4	46.4	46.5	153	156	145	148	114	115
7800	7.4	7.4	46.8	47.2	153	156	145	148	114	115
7900	7.4	7.4	47.4	48.1	153	156	145	148	115	116
8000	7.4	7.4	48.2	48.6	154	156	145	148	116	117
8100	7.4	7.5	48.8	49.2	154	156	145	149	116	117
8200	7.4	7.4	49.6	50.1	154	156	146	149	117	117

Exhaust Temps SpreadSheet

(RPM)	EGT 1(°F)	EGT 2(°F)	EGT 3(°F)	EGT 4(°F)	EGT 5(°F)	EGT 6(°F)	EGT 7(°F)	EGT 8(°F)
5500	1131	1105	1096	1199	1122	1211	1180	1130
5600	1135	1113	1096	1199	1122	1211	1182	1132
5700	1135	1113	1100	1202	1127	1218	1190	1144
5800	1141	1122	1105	1204	1131	1222	1190	1144
5900	1148	1132	1112	1205	1136	1225	1203	1158
6000	1156	1143	1121	1208	1141	1230	1216	1185
6100	1164	1154	1129	1214	1147	1233	1225	1196
6200	1172	1165	1136	1220	1158	1240	1236	1203
6300	1180	1173	1144	1229	1168	1244	1241	1216
6400	1191	1187	1155	1241	1177	1247	1253	1228
6500	1198	1197	1162	1241	1183	1252	1264	1238
6600	1205	1203	1164	1251	1194	1256	1276	1246
6700	1207	1208	1173	1258	1205	1260	1284	1250
6800	1216	1217	1182	1265	1214	1264	1294	1252
6900	1225	1225	1189	1270	1222	1267	1301	1256
7000	1234	1232	1199	1277	1234	1270	1305	1260
7100	1242	1239	1208	1282	1235	1272	1313	1267
7200	1253	1247	1218	1283	1245	1278	1321	1275
7300	1263	1256	1220	1288	1255	1283	1328	1284
7400	1270	1264	1236	1295	1264	1289	1334	1294
7500	1280	1265	1238	1297	1272	1295	1342	1303
7600	1288	1274	1247	1301	1280	1301	1348	1311
7700	1297	1289	1264	1309	1287	1306	1355	1320
7800	1307	1298	1274	1310	1295	1312	1362	1328
7900	1312	1302	1278	1315	1302	1317	1371	1336
8000	1328	1316	1289	1320	1318	1330	1385	1344
8100	1336	1324	1297	1325	1325	1338	1393	1351
8200	1345	1332	1305	1328	1332	1346	1399	1366
5500	1100	1070	1052	1149	1098	1183	1144	1116
5600	1106	1081	1057	1152	1101	1187	1144	1116
5700	1110	1086	1060	1155	1103	1191	1154	1124
5800	1113	1091	1063	1160	1108	1197	1163	1137
5900	1121	1102	1071	1163	1113	1201	1175	1152
6000	1129	1112	1079	1169	1120	1205	1186	1166
6100	1136	1123	1088	1176	1128	1209	1198	1180
6200	1144	1135	1097	1186	1137	1213	1208	1191
6300	1155	1148	1106	1194	1144	1218	1219	1194
6400	1164	1160	1116	1207	1158	1219	1222	1206
6500	1173	1172	1121	1208	1159	1223	1235	1217
6600	1178	1172	1126	1218	1170	1227	1248	1224
6700	1183	1183	1137	1227	1182	1231	1260	1231
6800	1194	1194	1147	1235	1193	1235	1271	1237
6900	1205	1203	1158	1243	1204	1239	1279	1243
7000	1214	1212	1168	1250	1215	1244	1288	1251
7100	1226	1220	1178	1256	1224	1247	1292	1255
7200	1235	1228	1189	1261	1231	1251	1302	1267
7300	1245	1237	1198	1264	1238	1254	1304	1270
7400	1253	1243	1205	1269	1241	1257	1312	1279
7500	1264	1255	1216	1275	1249	1263	1320	1287
7600	1271	1261	1223	1277	1256	1269	1327	1295
7700	1282	1272	1233	1283	1270	1277	1333	1302
7800	1290	1280	1240	1286	1278	1292	1347	1311
7900	1300	1290	1249	1290	1284	1298	1353	1326
8000	1309	1299	1257	1294	1291	1305	1360	1333
8100	1319	1309	1266	1297	1299	1314	1368	1340
8200	1341	1329	1285	1308	1306	1323	1376	1349