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Engine Analyzer Pro v3.9 B
Eng: 582 BRIAN KISSEL_DRAGON CLAW
Calculated Test Results

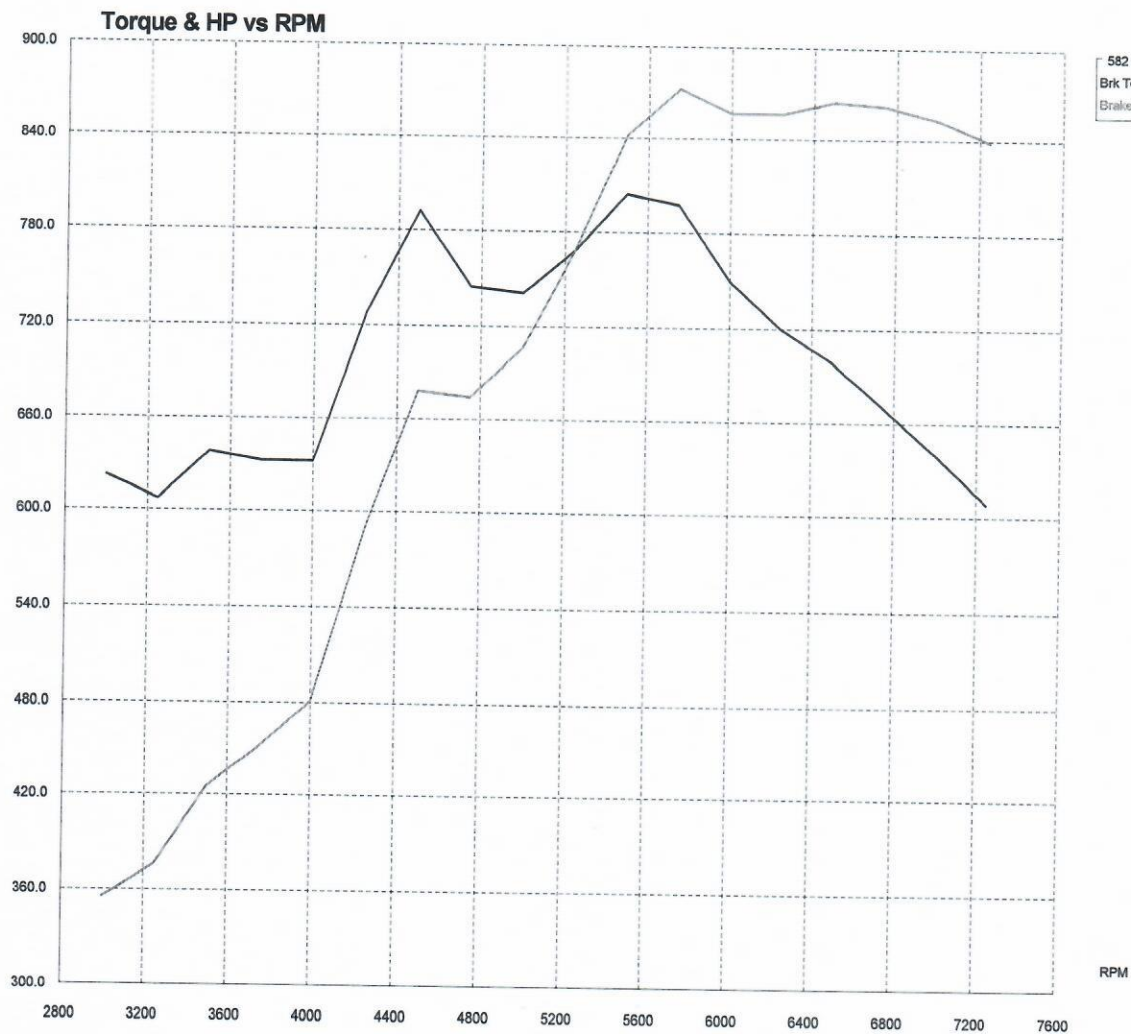
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Performance Trends (C) 2016

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Projected Performance

Ave H.P.

Engine RPM	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250
Chain # 1 (8.0" Hg Idle Vac, 581.67 cid) IntRnLen=16.8 Tq HP	621 355	643 398	604 402	630 450	760 579	711 575	694 594	754 682	840 799	842 842	793 830	766 839	741 846	717 854	695 860	666 856	616 820	492 679
Chain # 2 (8.0" Hg Idle Vac, 581.67 cid) IntRnLen=17.3 Tq HP	621 355	632 391	597 398	659 470	759 578	686 555	699 599	796 720	868 826	837 837	793 831	761 834	739 845	718 854	700 866	666 856	590 786	437 603
Chain # 3 (8.0" Hg Idle Vac, 581.67 cid) IntRnLen=17.8 Tq HP	625 357	622 385	595 396	699 499	738 553	674 545	712 610	835 755	877 835	826 826	787 824	759 830	737 841	720 857	700 867	662 851	532 709	388 536
Chain # 4 (8.0" Hg Idle Vac, 581.67 cid) IntRnLen=18.3 Tq HP	631 360	609 377	598 399	738 527	701 534	668 541	742 635	879 795	872 830	821 821	780 817	758 830	738 844	724 861	703 871	640 823	457 609	353 487
Chain # 5 (8.0" Hg Idle Vac, 581.67 cid) IntRnLen=18.8 Tq HP	632 361	601 372	614 409	759 542	674 513	670 542	785 673	903 817	860 819	811 811	773 810	753 825	737 842	728 866	705 872	565 726	406 541	320 441
Chain # 6 (8.0" Hg Idle Vac, 581.67 cid) IntRnLen=19.3 Tq HP	628 359	596 369	642 428	745 532	655 499	681 551	853 731	903 817	850 809	798 798	764 801	748 819	741 847	730 869	689 853	479 616	368 490	294 406



here by clicking on Format, then Edit Printed Comments at the top of the Graph screen.

Engine Analyzer Pro v3.9 B
Eng: 582 BRIAN KISSEL_DRAGON CLAW
Calculated Test Results

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Performance Trends (C) 2016

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Projected Performance

Engine RPM	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000	6250	6500	6750	7000	7250
Brk Tq, ft-lbs	622	607	638	632	632	728	792	745	741	768	804	797	750	720	699	670	640	608
Brake HP	355	376	425	451	481	589	678	674	706	768	842	873	857	857	865	862	853	839
Exh Pres, PSI	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Int Vac, "Hg	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2
Vol Eff, %	83.4	82.0	86.3	85.6	85.9	98.5	106.0	100.4	100.9	106.2	114.6	117.4	113.2	108.2	104.7	101.4	98.6	95.4
Actual CFM	421	449	509	540	578	705	803	803	849	938	1061	1136	1143	1138	1145	1152	1162	1164
Fuel Flow, lb/hr	154	164	186	198	212	258	294	294	311	344	389	416	419	417	419	422	425	426
Nitrous, lb/hr	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Ntrs Fuel, lb/hr	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
BMEP, PSI	161	157	165	164	164	189	205	193	192	199	209	207	195	187	181	174	166	158
A/F Mxtr Qlty, %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BSFC, lb/HP-hr	.424	.427	.428	.429	.430	.430	.426	.428	.432	.439	.453	.468	.479	.477	.475	.479	.487	.496
Thermal Eff, %	34.85	34.84	34.73	34.87	34.90	34.60	34.78	34.93	34.73	34.18	33.08	32.16	31.76	32.20	32.58	32.59	32.39	32.23
IMEP, PSI	182	179	188	187	187	213	231	219	219	227	237	236	225	218	213	207	200	192
Frctn Tq, ft-lbs	64.6	67.7	70.8	73.9	77.0	80.1	83.3	86.4	89.6	92.8	96.0	99.3	102.6	105.9	109.2	112.6	115.9	119.3
Frctn HP	36.93	41.90	47.17	52.75	58.64	64.83	71.34	78.16	85.31	92.78	100.58	108.71	117.18	125.99	135.15	144.66	154.52	164.74
FMEP, PSI	16.76	17.55	18.35	19.15	19.96	20.77	21.59	22.41	23.23	24.06	24.90	25.74	26.59	27.45	28.31	29.18	30.06	30.94
Mech Eff, %	90.8	90.2	90.2	89.7	89.4	90.3	90.6	89.8	89.4	89.5	89.1	88.2	87.4	86.7	85.9	85.0	83.9	
Motoring HP	38.50	44.13	50.49	55.68	62.41	70.83	76.68	82.26	94.07	111.60	136.10	159.71	174.55	186.18	199.60	215.91	235.50	256.63
Pumpng Work, HP	-1.57	-2.23	-3.31	-2.93	-3.78	-6.00	-5.34	-4.10	-8.75	-18.82	-35.52	-51.00	-57.37	-60.19	-64.45	-71.25	-80.98	-91.89
Residual Exh, %	4.5	4.5	4.8	8.7	9.6	5.6	3.3	4.7	3.5	2.1	1.4	1.2	1.3	1.4	1.6	2.1	2.7	3.3
Shrt Circuit, %	.2	.4	.5	.1	.0	.1	.3	.1	.5	1.3	2.5	3.6	4.1	3.0	1.7	.8	.4	.1
Exh Temp, deg F	1417	1413	1419	1410	1411	1444	1464	1449	1453	1463	1475	1474	1466	1471	1487	1498	1508	1508
Mx Cyl Pres, PSI	960	940	994	1011	1025	1153	1227	1166	1165	1210	1294	1316	1258	1206	1179	1151	1127	1101
Mx Cyl Tmp, deg F	4334	4323	4320	4219	4201	4334	4411	4351	4377	4428	4479	4514	4495	4471	4442	4416	4401	4387
In Port Tmp, deg F	97	99	97	101	98	78	69	71	67	64	63	71	72	64	61	64	67	68
Piston Spd, ft/min	2188	2370	2552	2734	2917	3099	3281	3464	3646	3828	4010	4193	4375	4557	4740	4922	5104	5286
Piston Gs @ TDC	740	870	1010	1160	1320	1490	1670	1860	2060	2270	2490	2720	2960	3220	3480	3750	4040	4330
Coolant HP	92.9	100.0	108.1	115.1	123.3	133.0	140.0	147.9	156.1	165.1	175.2	186.1	194.6	200.8	209.4	220.4	230.4	240.7
Blow By, CFM	2.5	2.5	2.6	2.7	2.7	3.0	3.2	3.0	3.0	3.1	3.3	3.4	3.2	3.1	3.0	3.0	2.9	2.8
In Tun Pres, PSI	.1	-.2	-.2	.8	1.0	2.0	3.3	3.3	3.0	3.4	4.8	7.3	8.7	8.0	6.5	5.7	5.6	6.0
Avg In Vel, ft/sec	86	94	101	108	115	122	130	137	144	151	158	166	173	180	187	194	202	209
Avg Ex Vel, ft/sec	177	191	206	221	236	250	265	280	294	309	324	339	353	368	383	397	412	427
Mach #	.222	.240	.259	.277	.296	.314	.333	.351	.370	.388	.407	.425	.444	.462	.480	.499	.517	.536
Act In FlowArea, %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Act Ex FlowArea, %	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Valve Toss																		
Knock Index	1.3	1.2	1.4	1.4	1.4	1.5	1.6	1.4	1.3	1.4	1.6	1.8	1.6	1.3	1.1	1.1	1.0	1.0
Spark Advnc, deg	36.9	37.8	38.2	38.9	39.2	38.6	38.3	38.8	38.9	38.7	38.5	38.6	38.8	39.2	39.4	39.7	39.9	40.2
Injctr Dty Cyc, %																		
Inj Plse Wdth, ms																		
Calc Error	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PkTq=804 @ 5500 Avg=700
PkHP=873 @ 5750 Avg=686

2.750" Throttles/ 6" Ramtubes