

	Baro	Baro
	Bar	mBar
Change torque	Corrected power	1.0189 1018.9

Load	Dyno Speed	Fuel Flow Rate	Lambda	Torque Nm	Power	Corrected power
Newtons	rpm	l/min	Lambda		Kw	Kw
102.275	1000	0.0704	1.2658	83.4334904	8.737134683	8.791862712
102.756	1050	0.0724	1.26783	83.82587866	9.21713676	9.274871445
103.689	1100	0.0737	1.27344	84.58699766	9.74372265	9.804755786
104.209	1150	0.0728	1.28476	85.01120118	10.237705	10.30183236
105.811	1200	0.0744	1.29181	86.31807434	10.84704913	10.91499333
107.51	1250	0.07895	1.29729	87.70407776	11.48043693	11.55234857
109.488	1300	0.079	1.29895	89.31768269	12.15932362	12.23548769
111.797	1350	0.0796	1.29469	91.20130947	12.89328137	12.97404285
114.268	1400	0.0835	1.2855	93.21709197	13.66633946	13.75194325
115.783	1450	0.0847	1.27818	94.45299261	14.34208667	14.43192323
116.985	1500	0.08865	1.2795	95.43355536	14.99066782	15.08456699
117.788	1550	0.0932	1.27766	96.08862349	15.59668454	15.6943797
118.471	1600	0.0959	1.28235	96.6457985	16.19315896	16.29459035
118.772	1650	0.09875	1.29028	96.89134707	16.74162293	16.8464898
118.656	1700	0.10005	1.29942	96.79671706	17.23209846	17.3400376
118.861	1750	0.10305	1.31053	96.96395114	17.76957213	17.88087792
119.584	1800	0.1093	1.3149	97.55375718	18.38845001	18.50363235
119.934	1850	0.11415	1.31849	97.83927878	18.95455483	19.07328316
120.176	1900	0.11745	1.31892	98.03669658	19.50611983	19.62830308
120.948	1950	0.12055	1.31484	98.66647565	20.14804188	20.27424602
122.157	2000	0.12555	1.31653	99.65274883	20.87122291	21.00195695
122.845	2050	0.12785	1.32098	100.2140027	21.51349094	21.64824804
123.796	2100	0.1309	1.32287	100.9898057	22.20881822	22.34793074
124.794	2150	0.13435	1.32164	101.8039501	22.92090217	23.06447507
125.137	2200	0.1377	1.31652	102.0837613	23.51841027	23.66572587
126.028	2250	0.14105	1.30465	102.8106177	24.2241811	24.37591754
126.66	2300	0.14495	1.29646	103.3261882	24.88667418	25.04256037
126.822	2350	0.14985	1.28229	103.4583439	25.46021122	25.61968995
126.69	2400	0.1537	1.27304	103.3506614	25.9748543	26.13755667
126.552	2450	0.15565	1.26984	103.2380844	26.48711394	26.65302502
126.438	2500	0.1596	1.27446	103.1450859	27.00332034	27.17246486
126.239	2550	0.1626	1.27876	102.9827465	27.50003638	27.67229225
126.161	2600	0.16805	1.27634	102.9191159	28.02192801	28.19745293
125.847	2650	0.17145	1.28027	102.6629623	28.48972671	28.66818185
124.911	2700	0.17465	1.28371	101.8993959	28.81137543	28.99184532
123.927	2750	0.1784	1.2812	101.0966724	29.11375162	29.29611555
123.689	2800	0.18005	1.27448	100.9025177	29.58616343	29.77148648
123.389	2850	0.1831	1.26036	100.6577849	30.04144696	30.22962183
122.519	2900	0.1879	1.2531	99.94805974	30.35295539	30.5430815
121.837	2950	0.19255	1.23943	99.39170051	30.70440989	30.89673745
121.709	3000	0.199	1.22735	99.28728118	31.19201932	31.38740119
121.123	3050	0.20605	1.2193	98.80923645	31.55920109	31.75688292
121.124	3100	0.21005	1.20692	98.81005222	32.07682986	32.27775405

120.851	3150	0.21605	1.19274	98.58734538	32.5207344	32.72443913
120.596	3200	0.21795	1.18481	98.3793225	32.96722739	33.17372889
120.84	3250	0.22305	1.17378	98.57837184	33.55008462	33.76023704
121.633	3300	0.2255	1.16118	99.22528221	34.28979594	34.50458179
122.181	3350	0.2285	1.15104	99.67232746	34.96616677	35.18518931
122.933	3400	0.2342	1.14117	100.285791	35.70647182	35.93013151
123.475	3450	0.23605	1.12669	100.7279416	36.39130855	36.61925795
123.428	3500	0.24195	1.11975	100.6896001	36.90466594	37.13583092
124.205	3550	0.24545	1.10622	101.3234581	37.6675154	37.90345875
124.066	3600	0.25505	1.09697	101.2100652	38.15529568	38.39429441
123.967	3650	0.25755	1.09401	101.1293034	38.65436099	38.89648578
123.815	3700	0.26445	1.09659	101.0053054	39.13582815	39.38096878
123.767	3750	0.2651	1.09808	100.9661482	39.64931368	39.8976707
123.509	3800	0.2693	1.09907	100.755678	40.09421772	40.34536155
122.672	3850	0.27375	1.10533	100.0728735	40.3464862	40.5992102
122.157	3900	0.2759	1.11704	99.65274883	40.69888467	40.95381604
121.184	3950	0.28285	1.12259	98.85899878	40.89233607	41.14847919
120.004	4000	0.28455	1.12461	97.8963831	41.00674106	41.2636008
118.734	4050	0.2871	1.1222	96.86034758	41.07992711	41.33724527
117.442	4100	0.28895	1.12394	95.80636499	41.13455823	41.39221859
116.5	4150	0.29305	1.12233	95.037904	41.30223604	41.56094671
115.931	4200	0.2949	1.12179	94.57372746	41.59569784	41.8562467
115.034	4250	0.29715	1.12456	93.84197638	41.76521234	42.02682302
114.391	4300	0.3022	1.12278	93.31743242	42.02036829	42.28357722
114.016	4350	0.30605	1.11943	93.01151642	42.36962302	42.63501963
113.871	4400	0.3092	1.11986	92.8932289	42.8021272	43.07023295
113.985	4450	0.3099	1.11873	92.98622736	43.33185257	43.60327643
113.306	4500	0.31445	1.11563	92.43231546	43.55770248	43.83054103
113.074	4550	0.3171	1.10953	92.24305542	43.9514993	44.22680453
112.195	4600	0.3194	1.10569	91.52598832	44.08906379	44.3652307
111.061	4650	0.32055	1.09782	90.60089834	44.11782308	44.39417013
109.973	4700	0.3207	1.09558	89.71333405	44.15536435	44.43194656
108.654	4750	0.32485	1.08827	88.6373255	44.08987535	44.36604735
107.076	4800	0.32455	1.08396	87.35003098	43.9069145	44.18194046
105.24	4850	0.3257	1.08221	85.85226624	43.60357724	43.87670314
103.632	4900	0.3277	1.0846	84.54049843	43.37999544	43.65172086
102.335	4950	0.32845	1.08823	83.48243696	43.27418876	43.54525143
101.106	5000	0.3287	1.08687	82.47984826	43.18634756	43.45686
99.3149	5050	0.32985	1.0891	81.01871186	42.84551132	43.11388881
97.5815	5100	0.3297	1.09185	79.60464574	42.51451294	42.78081712
95.8486	5150	0.33095	1.09407	78.19098751	42.16892648	42.43306596
94.8033	5200	0.3338	1.09346	77.33825686	42.11398526	42.3777806
93.0976	5250	0.3313	1.08804	75.94678774	41.75392732	42.01546731
91.7886	5300	0.3324	1.08339	74.87893695	41.55891089	41.81922933
90.5938	5350	0.3308	1.08007	73.90424779	41.40490581	41.66425958
89.6374	5400	0.3388	1.07895	73.12403962	41.35067022	41.60968427
88.9256	5450	0.3438	1.07923	72.54337027	41.40214564	41.66148212
88.6474	5500	0.3488	1.08366	72.31642138	41.65126866	41.91216561

Humidity	Ambient Temp	Ambient temp	Engine Stroke (m)	Calorific Value	Area
%	Deg C	Kelvin		0.09 petrol KJ/Kg	m^2
	46	27	300 gravity = 9.81	45800	0.004418

			diameter of load arm	radius
SFC	Thermal Efficiency	BMEP	815.776	0.815776
Kg/kwh	%	kPa		
0.360333197	21.81387136	1326.673112		
0.351271715	22.37658676	1332.912464		
0.338254218	23.23773539	1345.014992		
0.31800168	24.71767445	1351.760238		
0.30673404	25.62565931	1372.540783		
0.307534869	25.55892945	1394.579577		
0.290548288	27.05320368	1420.237455		
0.276089731	28.46995424	1450.18894		
0.273234112	28.76749888	1482.24183		
0.264102015	29.76221905	1501.893844		
0.264459033	29.72204019	1517.485739		
0.267229421	29.41390952	1527.901955		
0.264842497	29.67900578	1536.761576		
0.263778986	29.79866639	1540.666036		
0.259644766	30.27313871	1539.161327		
0.259341293	30.30856335	1541.820511		
0.265812674	29.5706818	1551.198997		
0.269316507	29.18596448	1555.739066		
0.269266782	29.19135423	1558.8782		
0.26756852	29.37663224	1568.892296		
0.269010646	29.21914851	1584.574992		
0.265760536	29.57648314	1593.499471		
0.263581451	29.82099838	1605.835488		
0.262123893	29.98682002	1618.781171		
0.261834352	30.01997998	1623.230439		
0.260390198	30.18647423	1634.788159		
0.260466578	30.1776223	1642.986227		
0.263205761	29.86356366	1645.08763		
0.264619225	29.70404738	1643.375376		
0.26279381	29.91037727	1641.585291		
0.264311686	29.73860947	1640.106526		
0.264416115	29.72686449	1637.525172		
0.268189117	29.3086539	1636.513385		
0.269122403	29.20701476	1632.440294		
0.271084849	28.99557851	1620.298852		
0.274029504	28.68399901	1607.534771		
0.272147983	28.88230851	1604.447524		
0.27256378	28.83824843	1600.556036		
0.276838472	28.39295407	1589.270721		
0.280442232	28.02809678	1580.424072		
0.285305558	27.5503291	1578.763703		
0.291976074	26.92091136	1571.16233		
0.292841007	26.84139796	1571.175302		

0.297094473	26.45711287	1567.634048
0.295648103	26.58654644	1564.326283
0.29730982	26.4379495	1567.49136
0.294091378	26.72727799	1577.77786
0.292239439	26.89665031	1584.886311
0.293319272	26.79763238	1594.640974
0.290072781	27.09755109	1601.671596
0.293187192	26.80970457	1601.06193
0.291404805	26.97368704	1611.140883
0.298931135	26.29455782	1609.337827
0.297963936	26.37991065	1608.053636
0.302182764	26.01161596	1606.081949
0.299002418	26.28828914	1605.459311
0.300369102	26.16867703	1602.112631
0.30342339	25.90526064	1591.25538
0.303158562	25.92789049	1584.574992
0.309324919	25.41102097	1571.953599
0.310315866	25.32987475	1556.64708
0.312538969	25.14970228	1540.173114
0.314135131	25.02191331	1523.413773
0.317299076	24.77240747	1511.1945
0.31704945	24.79191182	1503.813645
0.318171802	24.70445831	1492.178096
0.321614227	24.44003203	1483.83734
0.323026707	24.33316452	1478.97298
0.323053744	24.33112806	1477.092094
0.319826883	24.57661448	1478.570859
0.322839957	24.34724026	1469.763125
0.322643703	24.36204993	1466.753708
0.323969915	24.26232084	1455.351648
0.32492442	24.19104726	1440.641823
0.324800085	24.20030777	1426.528693
0.329491827	23.85571162	1409.419118
0.33055927	23.77867667	1388.949891
0.334038315	23.53101919	1365.133985
0.337821733	23.2674847	1344.275609
0.339422773	23.15773315	1327.451409
0.340372038	23.09314848	1311.50928
0.344280008	22.83101493	1288.2758
0.346802633	22.66494332	1265.790782
0.350970397	22.39579771	1243.312251
0.354454617	22.17565135	1229.753009
0.354833611	22.15196576	1207.627306
0.357682345	21.97553814	1190.647446
0.35728464	21.99999978	1175.148947
0.366405087	21.4523823	1162.742883
0.371350207	21.16670966	1153.509679
0.37449747	20.98882537	1149.900973



