



Rig Mass Flow Rate Calculations

Please Enter Parameters in highlighted boxes below

Engine Data File		
Ambient Conditions		
Air Temperature	5	[C]
Atmospheric Pressure	975	[mBar]
Air Humidity	95	[%]
Viper Engine Parameters		
Engine Air Intake Mass Flow	18.7	[Kg/s]
Butane Flow Rate	1732	[Ltr/h]
Engine Speed	12150	[RPM]
ETC	650	[C]
Gas Delivery System Data File		
Gas Delivery System		
Mixed Gas (Fuel) Mass Flow rate	0.017	[Kg/s]
Oxygen Mass Flow rate	0.155	[Kg/s]

Please do not change anything in this box

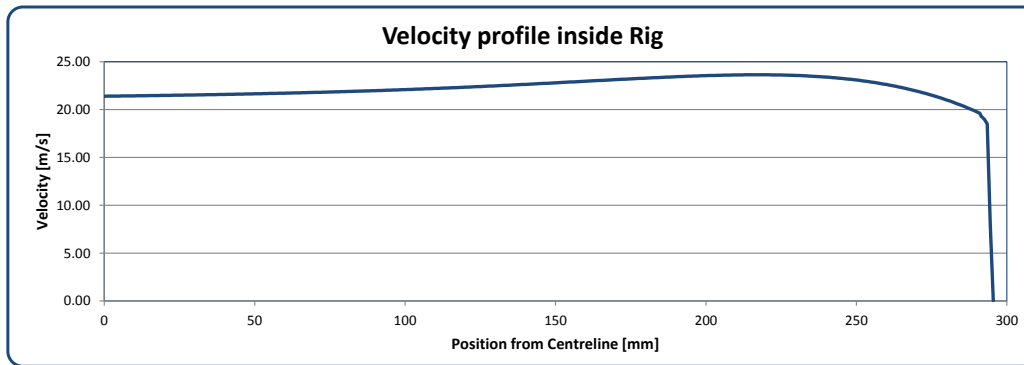
Test Date and Time = 22.10.2014 16:58:05.6

Calculated Parameters		
Air density	1.217898	[Kg/m3]
Liquid Butane density	584	[Kg/m3]
Butane mass Flow rate	0.280969	[Kg/s]
Air Fuel Ratio	79.23263	[]
Calculated Exhaust gas properties (Reaction Engines)		
Exhaust products density	0.389	[Kg/m3]
Pitot Traverse Results		
Rig Gas flow rate - Integrated	2.378093	[Kg/s]
Total Rig Mass flow	2.550093	[Kg/s]
Rig Gas Temperature as read from TC 8?		
Gas Temperature	516	[C]

Bruce Ewan to fill in

Note

Manual for viper 201 gives figures for fuel flow rate to be as follows at maximum power					
Fuel Flow	2035	lb/hr	to	2920	lb/hr
	925	Kg/hr		1327.273	Kg/hr
	1156.25	ltr/hr		1659.091	ltr/hr



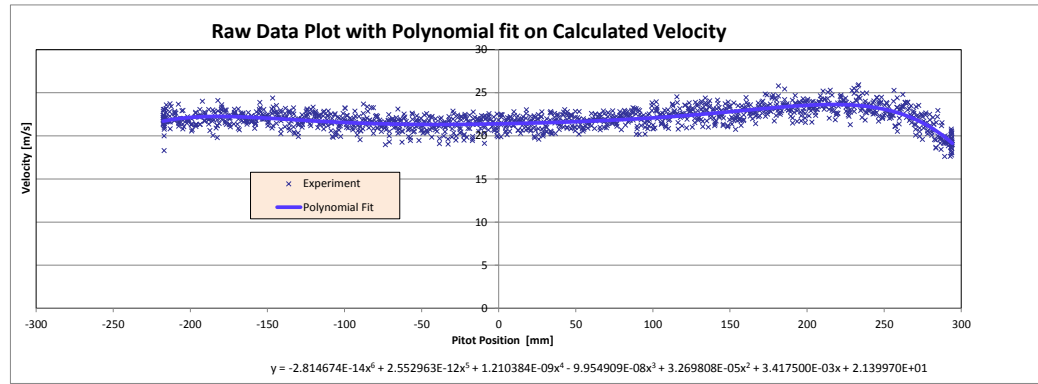
Data Acquisition Parameters

Sampling Rate	1000	[Hz]	
No of samples recorded	100	Samples	
Averaged samples sampling rate	10	[Hz]	
Pitot Traverse speed	7	[mm/s]	Averaged Pitot dp
Distance Travelled every 0.1sec	0.7	[mm]	0.945975444
			Average Vel 22.0195537 [m/s]

Raw Data from CSV File

Date and time [dd:mm:yyyy hh:mm:ss.ms]	Pitot Position from rig centre [mm]	TC11 - Pitot [deg C]	Pitot dP [mBar]	O2 %
22.10.2014 16:58:05.6	-216.91	513.7	0.8985	16.46
22.10.2014 16:58:05.7	-216.94	513.6	0.9303	16.29
22.10.2014 16:58:05.8	-216.93	513.9	0.9748	16.24
22.10.2014 16:58:05.9	-216.9	514	0.917	16.41
22.10.2014 16:58:06.0	-216.94	513.9	0.966	16.41
22.10.2014 16:58:06.1	-216.92	514	0.7784	16.28
22.10.2014 16:58:06.2	-216.92	514.2	0.6514	16.24
22.10.2014 16:58:06.3	-216.9	514.3	0.8571	16.42
22.10.2014 16:58:06.4	-216.92	514.1	0.8706	16.43
22.10.2014 16:58:06.5	-216.91	514.1	0.9436	16.31
22.10.2014 16:58:06.6	-216.95	514.4	1.0358	16.3
22.10.2014 16:58:06.7	-216.93	514.4	0.939	16.4
22.10.2014 16:58:06.8	-216.9	514.1	0.8398	16.39
22.10.2014 16:58:06.9	-216.96	514.3	0.8943	16.32
22.10.2014 16:58:07.0	-216.93	514.5	0.9111	16.33
22.10.2014 16:58:07.1	-215.92	514.5	0.9623	16.41
22.10.2014 16:58:07.2	-215.74	514.3	1.0417	16.37
22.10.2014 16:58:07.3	-215.77	514.4	0.9116	16.31
22.10.2014 16:58:07.4	-215.75	514.5	1.0062	16.34
22.10.2014 16:58:07.5	-213.38	514.4	1.0121	16.44
22.10.2014 16:58:07.6	-213.19	514.4	0.9647	16.35
22.10.2014 16:58:07.7	-213.16	514.6	1.0946	16.27
22.10.2014 16:58:07.8	-212.33	514.7	1.0648	16.4
22.10.2014 16:58:07.9	-210.01	514.6	1.0032	16.44
22.10.2014 16:58:08.0	-210.25	514.7	0.9256	16.36
22.10.2014 16:58:08.1	-210.2	515	0.9586	16.21
22.10.2014 16:58:08.2	-209.33	515.1	0.9962	16.44
22.10.2014 16:58:08.3	-207.49	514.9	0.8688	16.44
22.10.2014 16:58:08.4	-207.65	515	0.9415	16.35
22.10.2014 16:58:08.5	-207.64	515.3	0.8979	16.27
22.10.2014 16:58:08.6	-206.28	515.3	0.9428	16.42
22.10.2014 16:58:08.7	-204.49	515.1	0.9444	16.41
22.10.2014 16:58:08.8	-204.69	515.2	1.0252	16.35
22.10.2014 16:58:08.9	-204.19	515.4	0.863	16.3
22.10.2014 16:58:09.0	-201.49	515.3	0.9262	16.41
22.10.2014 16:58:09.1	-201.74	515.2	0.9605	16.38
22.10.2014 16:58:09.2	-201.73	515.3	0.9307	16.36
22.10.2014 16:58:09.3	-201.01	515.4	0.9284	16.36
22.10.2014 16:58:09.4	-198.94	515.4	0.8922	16.41
22.10.2014 16:58:09.5	-199.13	515.3	0.8226	16.34
22.10.2014 16:58:09.6	-199.11	515.4	0.9381	16.34
22.10.2014 16:58:09.7	-197.26	515.5	0.9557	16.35
22.10.2014 16:58:09.8	-196.52	515.4	0.9963	16.45
22.10.2014 16:58:09.9	-196.56	515.3	1.0055	16.35
22.10.2014 16:58:10.0	-196.52	515.5	0.961	16.3
22.10.2014 16:58:10.1	-194.16	515.5	0.9579	16.42
22.10.2014 16:58:10.2	-193.52	515.3	0.8867	16.44
22.10.2014 16:58:10.3	-193.57	515.2	0.9654	16.36
22.10.2014 16:58:10.4	-192.1	515.5	1.1218	16.29
22.10.2014 16:58:10.5	-190.49	515.5	0.979	16.42
22.10.2014 16:58:10.6	-190.63	515.2	0.9158	16.46
22.10.2014 16:58:10.7	-190.66	515.3	0.9204	16.31
22.10.2014 16:58:10.8	-188.15	515.5	0.9295	16.33
22.10.2014 16:58:10.9	-188.01	515.5	0.9324	16.4
22.10.2014 16:58:11.0	-188.03	515.2	0.9537	16.43
22.10.2014 16:58:11.1	-187.29	515.2	0.8273	16.33
22.10.2014 16:58:11.2	-185.24	515.4	0.7819	16.29
22.10.2014 16:58:11.3	-185.49	515.4	1.0302	16.38
22.10.2014 16:58:11.4	-185.48	515.2	0.9448	16.34
22.10.2014 16:58:11.5	-183.21	515.2	0.8509	16.3

Calculated Velocity [m/s]
21.4931088
21.8701473
22.3871061
21.7132516
22.2858273
20.0051407
18.3005471
20.9921028
21.156778
22.0259254
23.0769363
21.9721722
20.7791669
21.4428157
21.6432871
22.2431064
23.142567
21.6492251
22.7448121
22.8113984
22.2708266
23.7229077
23.3977566
22.7108798
21.8148319
22.2003034
22.6315066
21.1348954
22.0014022
21.4859313
22.0165864
22.0352604
22.9585521
21.0642303
21.8219012
22.2222936
21.8748485
21.8478026
21.4176248
20.5652763
21.9616398
22.1666973
22.6326424
22.7368991
22.2280769
22.1921962
21.3515079
22.2789051
24.0158474
22.4352825
21.6990398
21.7534679
21.8607418
21.8948175
22.1434909
20.6239435
20.0500659
23.0144696
22.0399264
20.9160398



22.10.2014 16:58:11.6	-182.51	515.3	0.876	16.37	21.2222903
22.10.2014 16:58:11.7	-182.48	515.2	0.9312	16.38	21.8807236
22.10.2014 16:58:11.8	-182.49	515	0.7621	16.4	19.7945748
22.10.2014 16:58:11.9	-180.31	515.1	0.9488	16.22	22.0865323
22.10.2014 16:58:12.0	-179.91	515.2	1.0357	16.42	23.0758223
22.10.2014 16:58:12.1	-179.91	515	0.9979	16.4	22.6508085
22.10.2014 16:58:12.2	-179.42	515	1.0301	16.28	23.0133526
22.10.2014 16:58:12.3	-177.17	515.1	1.0088	16.21	22.7741792
22.10.2014 16:58:12.4	-177.32	515.2	0.9174	16.45	21.7179868
22.10.2014 16:58:12.5	-177.31	515.1	0.9005	16.46	21.5170166
22.10.2014 16:58:12.6	-176.52	515	0.8856	16.24	21.3382599
22.10.2014 16:58:12.7	-174.13	515.3	0.9501	16.16	22.1016581
22.10.2014 16:58:12.8	-174.34	515.3	0.9353	16.39	21.9288403
22.10.2014 16:58:12.9	-174.27	515	0.8816	16.39	21.290016
22.10.2014 16:58:13.0	-171.28	515.1	1.0355	16.29	23.0735941
22.10.2014 16:58:13.1	-171.42	515.3	0.9873	16.27	22.5301854
22.10.2014 16:58:13.2	-171.36	515.3	0.9737	16.35	22.3744713
22.10.2014 16:58:13.3	-171.1	515.1	0.9888	16.37	22.5472939
22.10.2014 16:58:13.4	-168.69	515.2	0.9371	16.27	21.9499313
22.10.2014 16:58:13.5	-168.83	515.5	1.0411	16.32	23.1359012
22.10.2014 16:58:13.6	-168.8	515.5	0.847	16.35	20.8680516
22.10.2014 16:58:13.7	-167.23	515.4	0.9983	16.33	22.6553477
22.10.2014 16:58:13.8	-165.79	515.6	0.9867	16.25	22.5233384
22.10.2014 16:58:13.9	-165.86	515.7	0.9715	16.32	22.3491803
22.10.2014 16:58:14.0	-165.85	515.6	0.9569	16.39	22.1806094
22.10.2014 16:58:14.1	-164.19	515.6	0.9194	16.29	21.7416473
22.10.2014 16:58:14.2	-163.24	515.7	0.9246	16.24	21.8030445
22.10.2014 16:58:14.3	-163.24	515.8	0.9065	16.34	21.5885812
22.10.2014 16:58:14.4	-162.33	515.6	1.0027	16.4	22.7052195
22.10.2014 16:58:14.5	-160.17	515.7	0.9088	16.23	21.6159515
22.10.2014 16:58:14.6	-160.31	515.9	0.9094	16.24	21.6230858
22.10.2014 16:58:14.7	-160.31	515.9	0.9126	16.35	21.6610961
22.10.2014 16:58:14.8	-158.24	515.7	0.8472	16.36	20.8705152
22.10.2014 16:58:14.9	-157.7	515.7	0.8999	16.26	21.5098471
22.10.2014 16:58:15.0	-157.72	515.9	0.8889	16.26	21.3779792
22.10.2014 16:58:15.1	-157.74	515.9	0.9665	16.35	22.2915941
22.10.2014 16:58:15.2	-155.41	515.7	0.9912	16.35	22.5746405
22.10.2014 16:58:15.3	-155.17	515.7	1.0344	16.27	23.0613355
22.10.2014 16:58:15.4	-155.14	516	0.9482	16.3	22.0795477
22.10.2014 16:58:15.5	-153.37	516	0.991	16.34	22.5723629
22.10.2014 16:58:15.6	-152.1	515.9	0.9592	16.32	22.20725
22.10.2014 16:58:15.7	-152.22	516	0.9369	16.21	21.9475889
22.10.2014 16:58:15.8	-152.17	516.2	0.9427	16.34	22.0154188
22.10.2014 16:58:15.9	-150.38	516.3	0.9506	16.35	22.1074729
22.10.2014 16:58:16.0	-149.61	516.2	0.9002	16.29	21.5134322
22.10.2014 16:58:16.1	-149.62	516.4	0.8729	16.23	21.1847061
22.10.2014 16:58:16.2	-149.37	516.5	0.9268	16.35	21.8289683
22.10.2014 16:58:16.3	-146.89	516.4	0.9931	16.4	22.5962665
22.10.2014 16:58:16.4	-147.07	516.4	1.0387	16.27	23.1092187
22.10.2014 16:58:16.5	-147	516.6	0.85	16.23	20.9049754
22.10.2014 16:58:16.6	-146.56	516.7	1.1573	16.36	24.3928853
22.10.2014 16:58:16.7	-143.9	516.5	1.0117	16.4	22.8068902
22.10.2014 16:58:16.8	-144.09	516.5	1.0754	16.24	23.5139296
22.10.2014 16:58:16.9	-144.07	516.7	0.8949	16.26	21.4500076
22.10.2014 16:58:17.0	-141.27	516.8	0.7987	16.35	20.2643202
22.10.2014 16:58:17.1	-141.11	516.6	0.8363	16.36	20.7358215
22.10.2014 16:58:17.2	-141.1	516.6	0.92	16.25	21.7487405
22.10.2014 16:58:17.3	-141.09	516.9	0.9525	16.26	22.1295554
22.10.2014 16:58:17.4	-138.42	516.9	0.9443	16.31	22.0340937
22.10.2014 16:58:17.5	-138.52	516.7	0.9931	16.36	22.5962665
22.10.2014 16:58:17.6	-138.56	516.8	0.8622	16.23	21.0544648
22.10.2014 16:58:17.7	-137.56	517.1	0.9596	16.31	22.2118799
22.10.2014 16:58:17.8	-135.75	517.1	1.0208	16.32	22.9092319
22.10.2014 16:58:17.9	-135.95	517	0.8517	16.33	20.9258699
22.10.2014 16:58:18.0	-135.92	517.2	1.0088	16.22	22.7741792
22.10.2014 16:58:18.1	-134.53	517.4	0.9169	16.34	21.7120677
22.10.2014 16:58:18.2	-132.84	517.3	0.9876	16.37	22.5336081
22.10.2014 16:58:18.3	-133.04	517.2	1.0512	16.3	23.2478542
22.10.2014 16:58:18.4	-132.39	517.3	0.7984	16.16	20.2605141
22.10.2014 16:58:18.5	-129.84	517.3	0.7716	16.35	19.9175679
22.10.2014 16:58:18.6	-130.07	517	0.8048	16.37	20.3415565
22.10.2014 16:58:18.7	-129.99	516.9	0.8829	16.23	21.3057073

22.10.2014 16:58:18.8	-129.33	516.8	0.9381	16.2	21.9616398
22.10.2014 16:58:18.9	-127.23	516.7	0.8833	16.38	21.310533
22.10.2014 16:58:19.0	-127.44	516.4	0.9802	16.38	22.4490282
22.10.2014 16:58:19.1	-127.45	516.3	0.8584	16.22	21.0080166
22.10.2014 16:58:19.2	-125.58	516.4	0.9228	16.21	21.7818112
22.10.2014 16:58:19.3	-124.82	516.4	0.9276	16.36	21.8383875
22.10.2014 16:58:19.4	-124.84	516.1	0.9609	16.38	22.2269204
22.10.2014 16:58:19.5	-124.88	516.1	0.9749	16.23	22.3882544
22.10.2014 16:58:19.6	-122.4	516.2	0.9964	16.27	22.6337782
22.10.2014 16:58:19.7	-121.85	516.2	1.0368	16.34	23.0880732
22.10.2014 16:58:19.8	-121.9	516.1	0.9236	16.33	21.7912508
22.10.2014 16:58:19.9	-120.36	516.1	1.0587	16.25	23.3306401
22.10.2014 16:58:20.0	-118.82	516.3	1.0114	16.28	22.8035085
22.10.2014 16:58:20.1	-118.95	516.2	0.9906	16.37	22.567807
22.10.2014 16:58:20.2	-118.94	516.2	0.9458	16.28	22.0515871
22.10.2014 16:58:20.3	-117.31	516.4	0.8539	16.23	20.9528789
22.10.2014 16:58:20.4	-116.27	516.5	0.8915	16.32	21.4092213
22.10.2014 16:58:20.5	-116.35	516.4	0.8847	16.38	21.3274146
22.10.2014 16:58:20.6	-116.27	516.4	0.9304	16.25	21.8713227
22.10.2014 16:58:20.7	-113.27	516.5	1.0154	16.21	22.848557
22.10.2014 16:58:20.8	-113.43	516.6	0.8423	16.36	20.8100727
22.10.2014 16:58:20.9	-113.38	516.4	0.8807	16.37	21.279146
22.10.2014 16:58:21.0	-112.32	516.3	0.9157	16.23	21.6978551
22.10.2014 16:58:21.1	-110.68	516.5	0.9137	16.21	21.6741468
22.10.2014 16:58:21.2	-110.8	516.6	0.873	16.32	21.1859196
22.10.2014 16:58:21.3	-110.77	516.3	0.9654	16.34	22.2789051
22.10.2014 16:58:21.4	-108.21	516.2	0.9003	16.25	21.5146271
22.10.2014 16:58:21.5	-107.89	516.4	0.9425	16.21	22.0130833
22.10.2014 16:58:21.6	-107.81	516.4	0.7729	16.33	19.9343395
22.10.2014 16:58:21.7	-107.33	516.1	0.7653	16.31	19.8360893
22.10.2014 16:58:21.8	-105.53	516.2	0.7796	16.25	20.020555
22.10.2014 16:58:21.9	-105.62	516.4	0.8167	16.25	20.4913926
22.10.2014 16:58:22.0	-105.59	516.4	0.8003	16.36	20.2846074
22.10.2014 16:58:22.1	-103.6	516.2	0.8628	16.27	21.0617894
22.10.2014 16:58:22.2	-102.67	516.4	0.8714	16.23	21.1664963
22.10.2014 16:58:22.3	-102.69	516.5	0.8938	16.27	21.4368205
22.10.2014 16:58:22.4	-102.5	516.4	0.7725	16.37	19.9291805
22.10.2014 16:58:22.5	-99.55	516.3	1.0464	16.26	23.1947162
22.10.2014 16:58:22.6	-99.77	516.5	0.9224	16.23	21.7770899
22.10.2014 16:58:22.7	-99.69	516.5	1.0507	16.31	23.2423247
22.10.2014 16:58:22.8	-98.66	516.3	0.8568	16.4	20.9884287
22.10.2014 16:58:22.9	-97.37	516.3	0.9117	16.23	21.6504125
22.10.2014 16:58:23.0	-97.54	516.4	0.8501	16.19	20.906205
22.10.2014 16:58:23.1	-97.5	516.4	0.9016	16.35	21.5301546
22.10.2014 16:58:23.2	-94.72	516.1	0.8529	16.4	20.9406064
22.10.2014 16:58:23.3	-94.58	516	0.8332	16.27	20.697354
22.10.2014 16:58:23.4	-94.57	516.2	0.8786	16.25	21.2537612
22.10.2014 16:58:23.5	-93.71	516.3	0.8728	16.33	21.1834926
22.10.2014 16:58:23.6	-91.33	516	0.8261	16.35	20.6089805
22.10.2014 16:58:23.7	-91.66	516	0.7877	16.27	20.1242924
22.10.2014 16:58:23.8	-91.58	516.2	0.8774	16.24	21.2392419
22.10.2014 16:58:23.9	-89.95	516.2	0.8639	16.33	21.0752111
22.10.2014 16:58:24.0	-89.37	515.9	0.8238	16.29	20.5802711
22.10.2014 16:58:24.1	-89.41	516	0.8238	16.24	20.5802711
22.10.2014 16:58:24.2	-88.08	516.2	0.8432	16.27	20.8211875
22.10.2014 16:58:24.3	-86.27	516.1	0.8832	16.35	21.3093267
22.10.2014 16:58:24.4	-86.43	515.9	0.9279	16.26	21.8419186
22.10.2014 16:58:24.5	-86.43	516	0.9287	16.21	21.8513322
22.10.2014 16:58:24.6	-84.13	516.1	0.8529	16.32	20.9406064
22.10.2014 16:58:24.7	-83.84	516	0.9242	16.34	21.7983278
22.10.2014 16:58:24.8	-83.86	515.9	0.8871	16.25	21.3563233
22.10.2014 16:58:24.9	-82.29	516.1	0.9172	16.2	21.7156193
22.10.2014 16:58:25.0	-81.17	516.2	0.8452	16.34	20.845866
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22.10.2014 16:58:25.2	-81.22	516	1.0533	16.22	23.2710639
22.10.2014 16:58:25.3	-78.55	516.3	0.965	16.18	22.2742892
22.10.2014 16:58:25.4	-78.69	516.3	0.8532	16.31	20.9442889
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22.10.2014 16:58:25.9	-76.04	516.2	0.8583	16.32	21.0067929

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22.10.2014 16:58:26.8	-67.96	516.1	0.918	16.15	21.7250877
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22.10.2014 16:58:27.4	-64.19	516.2	0.8411	16.31	20.7952437
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22.10.2014 16:58:30.2	-43.4	517.4	0.7666	16.16	19.8529297
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22.10.2014 16:58:30.9	-38.37	517.7	0.7097	16.19	19.1019454
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22.10.2014 16:58:34.3	-11.78	517.8	0.9197	16.25	21.7451942
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22.10.2014 16:58:38.3	17.74	517.6	0.865	16.14	21.0886244
22.10.2014 16:58:38.4	19.13	517.6	0.8397	16.3	20.7779298
22.10.2014 16:58:38.5	20.89	517.3	0.8353	16.32	20.7234204
22.10.2014 16:58:38.6	20.75	517.3	0.8222	16.21	20.5602757
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22.10.2014 16:58:39.4	25.9	517.5	0.7896	16.12	20.1485486
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22.10.2014 16:58:40.2	33.73	518.2	0.8214	16.14	20.5502707
22.10.2014 16:58:40.3	34.04	518.3	0.7995	16.3	20.2744663

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22.10.2014 16:58:44.6	65.81	517	0.8577	16.3	20.9994491
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22.10.2014 16:58:45.9	76.73	516.9	0.8676	16.19	21.1202945
22.10.2014 16:58:46.0	76.53	516.9	0.8889	16.28	21.3779792
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22.10.2014 16:58:46.4	79.09	516.7	0.9388	16.31	21.9698321
22.10.2014 16:58:46.5	79.64	516.4	0.8352	16.31	20.7221799
22.10.2014 16:58:46.6	82.29	516.2	0.8787	16.18	21.2549707
22.10.2014 16:58:46.7	82.05	516.4	0.9861	16.22	22.5164892
22.10.2014 16:58:46.8	82.07	516.4	1.0131	16.29	22.822665
22.10.2014 16:58:46.9	83.72	516	1.0134	16.27	22.8260438
22.10.2014 16:58:47.0	84.73	515.9	0.9813	16.21	22.4616211
22.10.2014 16:58:47.1	84.66	516	0.9626	16.26	22.2465733
22.10.2014 16:58:47.2	85.45	515.8	0.9259	16.3	21.8183668
22.10.2014 16:58:47.3	87.44	515.4	1.0012	16.31	22.6882301
22.10.2014 16:58:47.4	87.19	515.4	1.0526	16.17	23.2633299
22.10.2014 16:58:47.5	87.27	515.4	0.9264	16.31	21.8242572

22.10.2014 16:58:47.6	89.31	515.3	0.7923	16.3	20.1829677
22.10.2014 16:58:47.7	89.86	515.1	0.8668	16.25	21.1105549
22.10.2014 16:58:47.8	89.82	515.2	0.8438	16.15	20.8285941
22.10.2014 16:58:47.9	91.12	515.2	0.7912	16.32	20.1689522
22.10.2014 16:58:48.0	92.5	515.1	0.8747	16.33	21.2065373
22.10.2014 16:58:48.1	92.36	515	0.9578	16.3	22.1910378
22.10.2014 16:58:48.2	92.45	515.1	0.9291	16.16	21.8560375
22.10.2014 16:58:48.3	94.9	515.1	0.8961	16.37	21.4643843
22.10.2014 16:58:48.4	94.97	514.9	0.7936	16.38	20.1995189
22.10.2014 16:58:48.5	95.01	514.9	0.8574	16.24	20.9957763
22.10.2014 16:58:48.6	96.73	515.1	0.8446	16.15	20.8384655
22.10.2014 16:58:48.7	97.59	515.1	0.87	16.38	21.1494863
22.10.2014 16:58:48.8	97.57	514.8	0.9104	16.34	21.6349712
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22.10.2014 16:58:49.0	100.3	515	0.8438	16.22	20.8285941
22.10.2014 16:58:49.1	100.12	514.9	0.8448	16.35	20.8409326
22.10.2014 16:58:49.2	100.2	514.7	0.8795	16.32	21.2646441
22.10.2014 16:58:49.3	101.34	514.8	0.8512	16.23	20.9197266
22.10.2014 16:58:49.4	102.89	515.1	0.9381	16.27	21.9616398
22.10.2014 16:58:49.5	102.75	515	1.0163	16.28	22.8586806
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22.10.2014 16:58:49.8	105.73	515	0.892	16.31	21.4152241
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22.10.2014 16:58:50.2	108.28	514.8	0.8722	16.25	21.1762102
22.10.2014 16:58:50.3	108.28	514.6	0.8713	16.35	21.1652818
22.10.2014 16:58:50.4	110.13	514.5	0.8465	16.2	20.8618913
22.10.2014 16:58:50.5	110.94	514.8	0.9334	16.09	21.9065555
22.10.2014 16:58:50.6	110.87	514.8	0.975	16.19	22.3894026
22.10.2014 16:58:50.7	111.16	514.6	0.9841	16.34	22.4936438
22.10.2014 16:58:50.8	114.04	514.6	1.0211	16.23	22.912598
22.10.2014 16:58:50.9	113.82	514.8	1.0125	16.13	22.8159057
22.10.2014 16:58:51.0	113.81	514.9	0.9983	16.27	22.6553477
22.10.2014 16:58:51.1	115.17	514.6	0.9725	16.29	22.3606798
22.10.2014 16:58:51.2	116.54	514.6	0.9762	16.21	22.4031764
22.10.2014 16:58:51.3	116.41	514.9	0.9026	16.22	21.5420913
22.10.2014 16:58:51.4	116.42	514.8	0.84	16.23	20.7816411
22.10.2014 16:58:51.5	118.96	514.5	0.8706	16.29	21.156778
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22.10.2014 16:58:51.8	119.87	514.6	0.9923	16.26	22.5871634
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22.10.2014 16:58:52.1	122	514.6	0.9824	16.22	22.4742069
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22.10.2014 16:58:52.5	125.6	514.6	0.8582	16.27	21.0055691
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22.10.2014 16:58:52.7	127.15	514.2	0.9427	16.14	22.0154188
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22.10.2014 16:58:54.6	141.1	514.6	0.9183	16.2	21.7286372
22.10.2014 16:58:54.7	143.25	514.8	0.9854	16.16	22.508496

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22.10.2014 16:58:54.9	143.01	514.7	0.965	16.35	22.2742892
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22.10.2014 16:58:55.3	145.86	514.8	0.9476	16.35	22.0725609
22.10.2014 16:58:55.4	148.74	514.8	0.8723	16.21	21.1774241
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22.10.2014 16:58:55.6	148.59	515	0.8712	16.34	21.1640671
22.10.2014 16:58:55.7	149.81	514.8	0.93	16.28	21.8666207
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22.10.2014 16:58:56.3	153.77	515.2	0.9337	16.31	21.9100756
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22.10.2014 16:58:56.8	159.04	515.2	0.9311	16.44	21.8795487
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22.10.2014 16:58:57.3	161.48	515.3	1.0187	16.23	22.8856552
22.10.2014 16:58:57.4	162.85	515.6	0.9948	16.31	22.6155985
22.10.2014 16:58:57.5	164.19	515.6	1.0345	16.32	23.0624501
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22.10.2014 16:58:57.7	164.68	515.4	0.9399	16.23	21.9826994
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22.10.2014 16:58:58.5	172	515.3	1.0532	16.21	23.2699592
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22.10.2014 16:59:00.2	182.92	515.3	1.0043	16.36	22.7233275
22.10.2014 16:59:00.3	185.69	515.1	1.0689	16.28	23.4427597
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22.10.2014 16:59:00.5	185.51	515.3	1.1397	16.33	24.2066935
22.10.2014 16:59:00.6	186.9	515.1	1.0427	16.41	23.1536724
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22.10.2014 16:59:01.2	190.71	515.4	1.0528	16.24	23.2655399
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22.10.2014 16:59:01.5	193.6	515.3	1.022	16.27	22.9226934
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22.10.2014 16:59:01.8	196.25	515.5	0.9199	16.33	21.7475584
22.10.2014 16:59:01.9	196.25	515.7	0.9717	16.3	22.3514807

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22.10.2014 16:59:02.4	201.31	516.2	0.9695	16.3	22.3261637
22.10.2014 16:59:02.5	201.36	516.1	1.0568	16.39	23.3096955
22.10.2014 16:59:02.6	201.4	516.1	1.0414	16.26	23.1392343
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22.10.2014 16:59:03.3	206.55	516	1.0746	16.38	23.5051818
22.10.2014 16:59:03.4	208.73	516	1.1822	16.24	24.6539025
22.10.2014 16:59:03.5	209.19	516.1	1.1437	16.22	24.2491354
22.10.2014 16:59:03.6	209.15	516.1	1.142	16.31	24.2311067
22.10.2014 16:59:03.7	209.62	515.8	1.0632	16.37	23.3801709
22.10.2014 16:59:03.8	211.92	515.7	1.0652	16.2	23.4021509
22.10.2014 16:59:03.9	211.72	515.9	1.1459	16.26	24.2724467
22.10.2014 16:59:04.0	211.72	515.8	1.075	16.31	23.5095561
22.10.2014 16:59:04.1	213.39	515.6	1.1505	16.3	24.3211165
22.10.2014 16:59:04.2	214.41	515.6	1.099	16.24	23.7705398
22.10.2014 16:59:04.3	214.33	515.8	1.0354	16.25	23.07248
22.10.2014 16:59:04.4	214.43	515.7	0.9452	16.37	22.0445914
22.10.2014 16:59:04.5	217.41	515.6	1.0722	16.24	23.4789191
22.10.2014 16:59:04.6	217.24	515.8	1.0147	16.21	22.8406799
22.10.2014 16:59:04.7	217.28	515.9	1.0764	16.28	23.5248597
22.10.2014 16:59:04.8	218.36	515.7	0.9305	16.38	21.872498
22.10.2014 16:59:04.9	220.03	515.7	0.997	16.22	22.6405919
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22.10.2014 16:59:05.2	222.16	515.7	1.1675	16.4	24.5001443
22.10.2014 16:59:05.3	222.42	515.7	1.108	16.21	23.8676729
22.10.2014 16:59:05.4	222.44	516	1.1119	16.15	23.9096414
22.10.2014 16:59:05.5	223.16	516.1	1.133	16.31	24.1354362
22.10.2014 16:59:05.6	225.6	515.8	1.1116	16.38	23.9064157
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22.10.2014 16:59:05.8	225.45	516.1	1.0166	16.21	22.8620542
22.10.2014 16:59:05.9	227.2	516.1	0.9651	16.31	22.2754433
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22.10.2014 16:59:06.1	227.98	515.8	1.033	16.29	23.0457241
22.10.2014 16:59:06.2	228.18	515.9	1.0071	16.22	22.7549819
22.10.2014 16:59:06.3	230.68	515.8	1.014	16.33	22.8328001
22.10.2014 16:59:06.4	230.54	515.6	1.0578	16.23	23.3207213
22.10.2014 16:59:06.5	230.57	515.7	1.2083	16.29	24.9245649
22.10.2014 16:59:06.6	233.12	515.8	1.2965	16.28	25.8182295
22.10.2014 16:59:06.7	233.55	515.7	1.1693	16.35	24.5190236
22.10.2014 16:59:06.8	233.52	515.6	1.3081	16.22	25.9334723
22.10.2014 16:59:06.9	233.55	515.6	1.1742	16.2	24.5703439
22.10.2014 16:59:07.0	235.63	515.7	1.0395	16.3	23.1181163
22.10.2014 16:59:07.1	235.7	515.4	0.9526	16.37	22.1307171
22.10.2014 16:59:07.2	235.71	515.3	1.0507	16.24	23.2423247
22.10.2014 16:59:07.3	237.69	515.5	0.927	16.19	21.8313235
22.10.2014 16:59:07.4	238.82	515.5	1.0014	16.31	22.6904961
22.10.2014 16:59:07.5	238.7	515.2	1.2135	16.37	24.9781395
22.10.2014 16:59:07.6	239.6	515.1	1.0932	16.2	23.707732
22.10.2014 16:59:07.7	241.49	515.3	1.0853	16.24	23.6219148
22.10.2014 16:59:07.8	241.27	515.3	1.0313	16.32	23.0267532
22.10.2014 16:59:07.9	241.25	515.1	1.0618	16.33	23.3647726
22.10.2014 16:59:08.0	243.38	515.1	1.1257	16.23	24.0575574
22.10.2014 16:59:08.1	243.91	515.3	1.0224	16.23	22.9271788
22.10.2014 16:59:08.2	243.87	515.2	0.9929	16.31	22.5939911
22.10.2014 16:59:08.3	245.22	515	1.0019	16.28	22.6961601
22.10.2014 16:59:08.4	246.6	515	1.0971	16.22	23.7499831
22.10.2014 16:59:08.5	246.46	515.2	0.9641	16.21	22.2638998
22.10.2014 16:59:08.6	246.43	515.1	0.9164	16.4	21.7061469
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22.10.2014 16:59:08.8	249.03	515.1	0.9434	16.21	22.023591
22.10.2014 16:59:08.9	249.07	515.2	0.9617	16.29	22.236171
22.10.2014 16:59:09.0	249.83	515	0.9768	16.4	22.4100602
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22.10.2014 16:59:09.8	257.37	514.9	0.8673	16.4	21.1166426
22.10.2014 16:59:09.9	257.15	514.9	0.8665	16.24	21.1069014
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22.10.2014 16:59:10.4	259.77	515.1	1.0298	16.3	23.0100012
22.10.2014 16:59:10.5	262.4	515.1	1.0741	16.38	23.4997128
22.10.2014 16:59:10.6	262.32	514.9	1.0583	16.29	23.3262322
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22.10.2014 16:59:11.1	265.31	514.9	1.1089	16.18	23.8773645
22.10.2014 16:59:11.2	267.47	515	1.0726	16.41	23.4832982
22.10.2014 16:59:11.3	267.89	514.7	0.9716	16.42	22.3503305
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22.10.2014 16:59:16.9	293.46	515.5	0.6742	16.32	18.6180662
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22.10.2014 16:59:27.4	219.07	515.5	0.9844	16.32	22.4970721
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22.10.2014 16:59:28.7	210.43	516	1.2343	16.3	25.1912989
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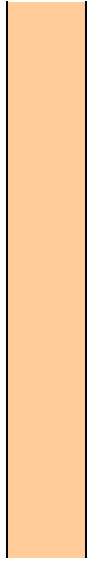
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22.10.2014 17:00:14.0	-132.65	513.3	0.8116	16.29	20.4273117
22.10.2014 17:00:14.1	-133.01	513.5	0.8621	16.29	21.0532438
22.10.2014 17:00:14.2	-133.28	513.4	0.9464	16.42	22.0585806
22.10.2014 17:00:14.3	-133.49	513.2	1.0025	16.42	22.702955
22.10.2014 17:00:14.4	-135.72	513.2	0.9962	16.34	22.6315066
22.10.2014 17:00:14.5	-135.69	513.4	0.8879	16.35	21.3659509
22.10.2014 17:00:14.6	-135.58	513.3	0.8284	16.46	20.63765
22.10.2014 17:00:14.7	-136.44	513.2	0.9353	16.35	21.9288403
22.10.2014 17:00:14.8	-138.55	513.3	0.9533	16.35	22.1388467
22.10.2014 17:00:14.9	-138.44	513.4	0.9423	16.37	22.0107476
22.10.2014 17:00:15.0	-138.31	513.3	1.0461	16.48	23.191391
22.10.2014 17:00:15.1	-141.09	513.2	0.9455	16.33	22.0480895
22.10.2014 17:00:15.2	-141.26	513.3	1.0033	16.34	22.7120117
22.10.2014 17:00:15.3	-141.3	513.4	1.0245	16.36	22.9507128
22.10.2014 17:00:15.4	-142.25	513.1	0.9555	16.51	22.1643777
22.10.2014 17:00:15.5	-143.7	513.1	0.9854	16.31	22.508496
22.10.2014 17:00:15.6	-143.74	513.2	0.9562	16.32	22.1724951
22.10.2014 17:00:15.7	-144.05	513.3	0.985	16.41	22.5039271
22.10.2014 17:00:15.8	-145.05	513.1	1.0072	16.51	22.7561116
22.10.2014 17:00:15.9	-146.36	513	1.0178	16.34	22.8755435
22.10.2014 17:00:16.0	-146.23	513.3	1.0602	16.3	23.347162
22.10.2014 17:00:16.1	-146.41	513.3	0.8721	16.41	21.1749962
22.10.2014 17:00:16.2	-149.12	513.1	0.9102	16.46	21.6325947
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22.10.2014 17:00:16.4	-149.38	513.5	0.9822	16.39	22.4719191
22.10.2014 17:00:16.5	-150.42	513.5	0.9764	16.38	22.4054712
22.10.2014 17:00:16.6	-152.33	513.3	1.0347	16.43	23.0646794
22.10.2014 17:00:16.7	-152.2	513.4	0.9372	16.31	21.9511025
22.10.2014 17:00:16.8	-152.38	513.6	0.9792	16.39	22.4375741
22.10.2014 17:00:16.9	-153.34	513.6	0.9355	16.39	21.9311847
22.10.2014 17:00:17.0	-154.6	513.5	1.0529	16.37	23.2666448
22.10.2014 17:00:17.1	-154.87	513.7	1.109	16.31	23.8784411
22.10.2014 17:00:17.2	-155	513.8	1.0184	16.41	22.8822851
22.10.2014 17:00:17.3	-157.05	513.7	1.0105	16.48	22.7933603
22.10.2014 17:00:17.4	-157.27	513.7	0.9235	16.36	21.7900711
22.10.2014 17:00:17.5	-157.63	513.9	0.887	16.28	21.3551196
22.10.2014 17:00:17.6	-157.75	514	0.9345	16.42	21.91946
22.10.2014 17:00:17.7	-160.11	513.8	0.9679	16.48	22.3077332
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22.10.2014 17:00:17.9	-160.19	514.1	0.927	16.3	21.8313235
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22.10.2014 17:00:18.1	-163.17	513.9	0.8862	16.44	21.3454871
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22.10.2014 17:00:18.4	-165.49	514.1	0.9091	16.45	21.6195189
22.10.2014 17:00:18.5	-165.81	513.9	0.9511	16.4	22.1132863
22.10.2014 17:00:18.6	-165.87	514	0.996	16.35	22.6292347
22.10.2014 17:00:18.7	-166.53	514.2	0.9209	16.37	21.7593758
22.10.2014 17:00:18.8	-168.62	514.2	0.9729	16.43	22.3652779
22.10.2014 17:00:18.9	-168.19	514.1	0.8342	16.38	20.7097707
22.10.2014 17:00:19.0	-168.51	514.3	0.9685	16.33	22.3146464
22.10.2014 17:00:19.1	-169.45	514.5	0.8862	16.4	21.3454871
22.10.2014 17:00:19.2	-171.4	514.4	1.0037	16.47	22.7165387
22.10.2014 17:00:19.3	-171.12	514.4	1.0044	16.34	22.7244588
22.10.2014 17:00:19.4	-171.69	514.5	0.8876	16.33	21.362341
22.10.2014 17:00:19.5	-174.77	514.5	0.8871	16.41	21.3563233
22.10.2014 17:00:19.6	-173.95	514.4	0.8619	16.49	21.0508016
22.10.2014 17:00:19.7	-174.44	514.4	0.9757	16.31	22.3974383
22.10.2014 17:00:19.8	-175.72	514.6	0.9703	16.3	22.3353732
22.10.2014 17:00:19.9	-177.45	514.6	1.0302	16.43	23.0144696
22.10.2014 17:00:20.0	-176.63	514.4	1.0278	16.49	22.9876462
22.10.2014 17:00:20.1	-176.84	514.4	0.9533	16.32	22.1388467
22.10.2014 17:00:20.2	-179.49	514.6	0.9332	16.35	21.9042084
22.10.2014 17:00:20.3	-179.61	514.7	1.0585	16.42	23.3284363
22.10.2014 17:00:20.4	-179.61	514.5	1.0837	16.43	23.6044961
22.10.2014 17:00:20.5	-181.22	514.6	0.8936	16.36	21.434422
22.10.2014 17:00:20.6	-182.47	514.9	0.8721	16.36	21.1749962
22.10.2014 17:00:20.7	-182.08	514.9	1.13	16.42	24.1034617
22.10.2014 17:00:20.8	-181.98	514.8	1.0186	16.4	22.8845319
22.10.2014 17:00:20.9	-184	515	0.9957	16.35	22.6258264
22.10.2014 17:00:21.0	-184.91	515.1	0.9268	16.39	21.8289683
22.10.2014 17:00:21.1	-184.56	515.1	1.0149	16.46	22.8429308

22.10.2014 17:00:21.2	-185.64	515	0.9168	16.37	21.7108836
22.10.2014 17:00:21.3	-188.02	515.2	0.8884	16.29	21.3719659
22.10.2014 17:00:21.4	-188.04	515.3	1.0344	16.45	23.0613355
22.10.2014 17:00:21.5	-187.34	515.2	0.95	16.47	22.1004949
22.10.2014 17:00:21.6	-188.94	515.2	0.9536	16.37	22.14233
22.10.2014 17:00:21.7	-190.76	515.4	0.9235	16.27	21.7900711
22.10.2014 17:00:21.8	-190.66	515.4	1.0068	16.45	22.7515925
22.10.2014 17:00:21.9	-190.28	515.3	0.9929	16.44	22.5939911
22.10.2014 17:00:22.0	-193.55	515.3	0.9829	16.36	22.4799253
22.10.2014 17:00:22.1	-193.71	515.5	0.8838	16.25	21.3165637
22.10.2014 17:00:22.2	-193.46	515.6	0.9591	16.44	22.2060924
22.10.2014 17:00:22.3	-193.73	515.4	1.0337	16.43	23.0535311
22.10.2014 17:00:22.4	-196.49	515.5	0.8832	16.29	21.3093267
22.10.2014 17:00:22.5	-196.33	515.7	0.8822	16.31	21.2972596
22.10.2014 17:00:22.6	-195.94	515.7	0.8853	16.43	21.3346454
22.10.2014 17:00:22.7	-196.37	515.6	0.8654	16.41	21.0934998
22.10.2014 17:00:22.8	-199.35	515.6	0.88	16.32	21.2706878
22.10.2014 17:00:22.9	-199.22	515.8	0.8841	16.35	21.3201813
22.10.2014 17:00:23.0	-198.76	515.7	0.8371	16.42	20.745737
22.10.2014 17:00:23.1	-201.53	515.6	0.9237	16.4	21.7924305
22.10.2014 17:00:23.2	-202.15	515.7	0.9218	16.31	21.770006
22.10.2014 17:00:23.3	-202.25	515.8	0.8964	16.42	21.467977
22.10.2014 17:00:23.4	-201.72	515.6	0.9434	16.49	22.023591
22.10.2014 17:00:23.5	-204.82	515.5	0.8415	16.35	20.8001879
22.10.2014 17:00:23.6	-204.91	515.7	0.8877	16.3	21.3635444
22.10.2014 17:00:23.7	-204.69	515.7	0.9236	16.44	21.7912508
22.10.2014 17:00:23.8	-205.37	515.5	1.0207	16.5	22.9081097
22.10.2014 17:00:23.9	-207.73	515.5	1.0903	16.33	23.6762656
22.10.2014 17:00:24.0	-207.38	515.7	0.909	16.32	21.6183298
22.10.2014 17:00:24.1	-207.19	515.7	0.893	16.45	21.4272248
22.10.2014 17:00:24.2	-208.18	515.4	0.9399	16.46	21.9826994
22.10.2014 17:00:24.3	-210.27	515.4	0.9214	16.37	21.7652821
22.10.2014 17:00:24.4	-210.1	515.6	1.0147	16.34	22.8406799
22.10.2014 17:00:24.5	-210.22	515.6	0.9902	16.45	22.5632501
22.10.2014 17:00:24.6	-213.24	515.4	0.9134	16.36	21.6705883
22.10.2014 17:00:24.7	-213.04	515.4	0.9086	16.4	21.6135728
22.10.2014 17:00:24.8	-213.08	515.7	0.8434	16.37	20.8236567
22.10.2014 17:00:24.9	-214.25	515.6	0.9112	16.43	21.6444748
22.10.2014 17:00:25.0	-215.65	515.5	0.954	16.35	22.1469734
22.10.2014 17:00:25.1	-215.57	515.6	0.9482	16.35	22.0795477
22.10.2014 17:00:25.2	-215.54	515.8	1.0821	16.42	23.5870646
22.10.2014 17:00:25.3	-216.72	515.7	1.0351	16.49	23.0691372
22.10.2014 17:00:25.4	-217.53	515.7	0.8826	16.36	21.3020872
22.10.2014 17:00:25.5	-217.49	515.9	0.8962	16.32	21.4655819
22.10.2014 17:00:25.6	-217.49	516	0.9498	16.46	22.0981684
22.10.2014 17:00:25.7	-217.46	515.9	1.0342	16.49	23.0591059
22.10.2014 17:00:25.8	-217.46	515.9	0.9714	16.34	22.3480301
22.10.2014 17:00:25.9	-217.46	516.1	0.9541	16.32	22.1481341
22.10.2014 17:00:26.0	-217.44	516.2	0.8898	16.43	21.3887989
22.10.2014 17:00:26.1	-217.47	516	0.9303	16.49	21.8701473
22.10.2014 17:00:26.2	-217.52	516.1	0.949	16.37	22.08886
22.10.2014 17:00:26.3	-217.51	516.3	0.975	16.31	22.3894026
22.10.2014 17:00:26.4	-217.5	516.4	1.0161	16.45	22.8564313



Calculation of mass flow rate based on polynomial equation fitted to the experimental data

$$y = -2.814674E-14x^6 + 2.552963E-12x^5 + 1.210384E-09x^4 - 9.954909E-08x^3 + 3.269808E-05x^2 + 3.417500E-03x + 2.139970E+01$$

Please enter below Polynomial Coefficients

Order no	Coeff
6	-2.814674E-14
5	2.552963E-12
4	1.210384E-09
3	-9.954909E-08
2	3.269808E-05
1	3.417500E-03
0	2.139970E+01

Actual Area	0.274324656	[m ²]
Integrated area	0.274324656	[m ²]
Area Error	0	[%]
Integrated Mass flow	2.378092943	[Kg/s]

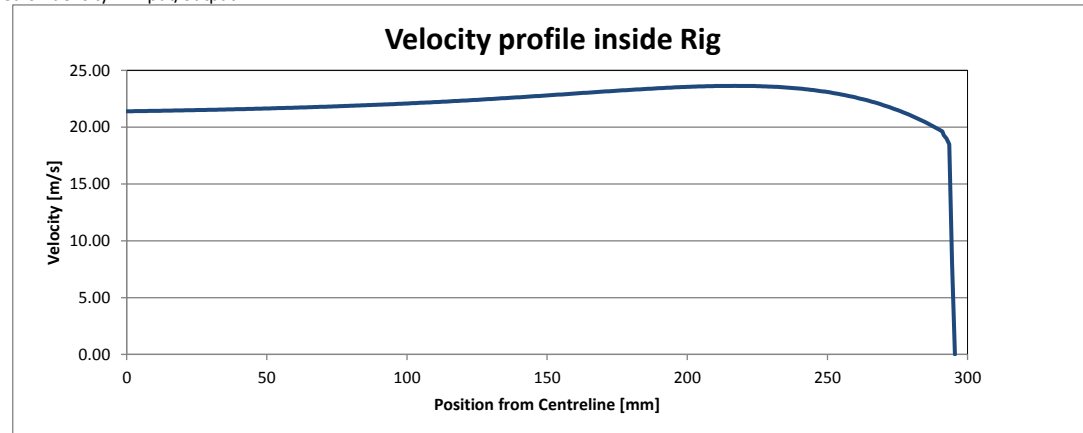
Polynomial curve (dP vs position)

Please do NOT alter any of the figures below

position [mm]	Velocity [m/s]
0	21.399700
1	21.403150
2	21.406665
3	21.410244
4	21.413887
5	21.417593
6	21.421362
7	21.425194
8	21.429087
9	21.433042
10	21.437058
11	21.441135
12	21.445272
13	21.449470
14	21.453728
15	21.458046
16	21.462424
17	21.466862
18	21.471360
19	21.475916
20	21.480533
21	21.485209
22	21.489944
23	21.494740
24	21.499594
25	21.504509
26	21.509484
27	21.514519
28	21.519614
29	21.524770
30	21.529987
31	21.535266
32	21.540605

Delta Area [m ²]	Delta Mass flow [Kg/s]
0	0
3.14159E-06	2.61564E-05
9.42478E-06	7.84819E-05
1.5708E-05	0.000130825
2.19911E-05	0.000183186
2.82743E-05	0.000235566
3.45575E-05	0.000287965
4.08407E-05	0.000340383
4.71239E-05	0.000392821
5.34071E-05	0.000445279
5.96903E-05	0.000497758
6.59734E-05	0.000550258
7.22566E-05	0.00060278
7.85398E-05	0.000655324
8.4823E-05	0.00070789
9.11062E-05	0.00076048
9.73894E-05	0.000813092
0.000103673	0.000865729
0.000109956	0.00091839
0.000116239	0.000971075
0.000122522	0.001023786
0.000128805	0.001076522
0.000135088	0.001129284
0.000141372	0.001182073
0.000147655	0.001234888
0.000153938	0.001287731
0.000160221	0.001340601
0.000166504	0.0013935
0.000172788	0.001446427
0.000179071	0.001499384
0.000185354	0.00155237
0.000191637	0.001605386
0.00019792	0.001658433

Based on density in input/output



33	21.546007
34	21.551471
35	21.556998
36	21.562588
37	21.568242
38	21.573960
39	21.579743
40	21.585591
41	21.591504
42	21.597485
43	21.603532
44	21.609647
45	21.615830
46	21.622083
47	21.628405
48	21.634799
49	21.641263
50	21.647799
51	21.654409
52	21.661092
53	21.667850
54	21.674684
55	21.681593
56	21.688580
57	21.695645
58	21.702790
59	21.710014
60	21.717319
61	21.724706
62	21.732176
63	21.739730
64	21.747369
65	21.755094
66	21.762905
67	21.770805
68	21.778793
69	21.786872
70	21.795041
71	21.803302
72	21.811657
73	21.820105
74	21.828648
75	21.837288
76	21.846025
77	21.854860
78	21.863794
79	21.872828
80	21.881963
81	21.891200
82	21.900541

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0.000241903	0.002030656
0.000248186	0.002083965
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0.000260752	0.002190689
0.000267035	0.002244105
0.000273319	0.002297558
0.000279602	0.002351048
0.000285885	0.002404575
0.000292168	0.002458142
0.000298451	0.002511747
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0.000342434	0.002888133
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0.000355	0.00299606
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0.00037385	0.003158295
0.000380133	0.003212468
0.000386416	0.003266689
0.000392699	0.00332096
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0.000405265	0.003429653
0.000411549	0.003484076
0.000417832	0.003538552
0.000424115	0.003593081
0.000430398	0.003647665
0.000436681	0.003702303
0.000442965	0.003756997
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0.000455531	0.003866556
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0.00047438	0.004031335
0.000480664	0.004086382
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0.00051208	0.004362565

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85	21.929190
86	21.938953
87	21.948823
88	21.958802
89	21.968890
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91	21.989398
92	21.999819
93	22.010353
94	22.021001
95	22.031762
96	22.042638
97	22.053630
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99	22.075962
100	22.087303
101	22.098762
102	22.110338
103	22.122033
104	22.133847
105	22.145780
106	22.157832
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110	22.207236
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118	22.311779
119	22.325380
120	22.339097
121	22.352930
122	22.366879
123	22.380941
124	22.395117
125	22.409406
126	22.423806
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128	22.452934
129	22.467660
130	22.482492
131	22.497428
132	22.512466

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0.000644026	0.005542151
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0.000669159	0.005770917
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155	22.880996
156	22.897674
157	22.914372
158	22.931084
159	22.947805
160	22.964529
161	22.981250
162	22.997963
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164	23.031338
165	23.047987
166	23.064603
167	23.081177
168	23.097703
169	23.114173
170	23.130580
171	23.146916
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173	23.179345
174	23.195420
175	23.211392
176	23.227251
177	23.242989
178	23.258595
179	23.274061
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273	21.686544
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0.001680752	0.014444398
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0.001768717	0.014299552

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0.000914989	0.006869462
0.00183469	0.013560195
0.001840973	0.013248564
0.001847256	0.005748662
0.00185354	0

Please do not change any of the values in this sheet

Patm	Atmpspheric air pressure - (As recorded from engine data)	975 [mBar]
Patm		97500 [Pa]
Tatm		5 [C]
Tatm		278 [K]
Relative Humidity		95 [%]

$$\rho_{\text{humid air}}^{[1]} = \frac{p_d}{R_d T} + \frac{p_v}{R_v T} = \frac{p_d M_d + p_v M_v}{RT}$$

where:

$\rho_{\text{humid air}}$	Density of the humid air (kg/m ³)
p_d	Partial pressure of dry air (Pa)
R_d	Specific gas constant for dry air, 287.058 J/(kg·K)
T	Temperature (K)
p_v	Pressure of water vapor (Pa)
R_v	Specific gas constant for water vapor, 461.495 J/(kg·K)
M_d	Molar mass of dry air, 0.028964 (kg/mol)
M_v	Molar mass of water vapor, 0.018016 (kg/mol)
R	Universal gas constant, 8.314 J/(K·mol)

$$\rho_{\text{humid air}} = 1.217898 \text{ Kg/m}^3$$

$$0.318090154$$

The vapor pressure of water may be calculated from the [saturation vapor pressure](#) and [relative humidity](#). It is found by:

$$p_v = \phi p_{\text{sat}}$$

$$p_u = 828.6578 \text{ [Pa]}$$

Where:

p_v	Vapor pressure of water
ϕ	Relative humidity
p_{sat}	Saturation vapor pressure

The [saturation vapor pressure of water](#) at any given temperature is the vapor pressure when relative humidity is 100%. One formula ^[1] used to find the saturation vapor pressure is:

$$p_{\text{sat}} = 6.1078 \times 10^{\frac{7.5T}{T+237.3}}$$

$$p_{\text{sat}} = 8.722714 \text{ hPa}$$

$$p_{\text{sat}} = 872.2714 \text{ [Pa]}$$

where T is in degrees C. Note:

$$\rho = \frac{p}{R_{\text{specific}} T} \quad 1.22177 \text{ [kg/m}^3\text{]}$$

$$R = 287.058 \text{ J/Kg K}$$

$$T = \text{Temperature in degrees Kelvin}$$

$$P = \text{Absolute Pressure in Pa}$$