Time (mse	AFR	Boost (bar)	Boost Targ	Closed loo	Coolant (d	FKC (deg)	FLKC (deg)	Fuel corre	Fuel learn	Fuel pump	IAM	Injector DC	Injector PV	Intake (deg	Load (g/re	MAF (g/s)	MAF (V)	Misfire cyl	Misfire cyl	Misfire cyl	Misfire cyl	O2 rear (V)	RPM	Speed (mp	Throttle pe	Throttle pl	Timing (de	Turbo WGDC (%)
33	14.6	-0.14	0.92	1	83	0	0	0.6	-3.61	33.3	1	10.2	5.6	23	0.98	35.7	2.48	0	0	0	0	0.2	2188	26.3	19.6	20.8	41	0
98	14.6	-0.14	0.92	1	83	0	0	0.8	-3.61	33.3	1	10.9	5.9	23	0.99	36.66	2.5	0	0	0	0	0.3	2217	26.3	19.6	20.8	40.5	0
198	14.6	-0.13	0.92	1	83	0	0	1	-3.61	33.3	1	11.1	5.9	23	0.99	37.27	2.52	0	0	0	0	0.3	2252	28.3	20.4	21.2	41	0
289	14.5	-0.11	0.92	1	83	0	0	0.3	-3.61	33.3	1	11.1	5.9	23	1.02	38.34	2.54	0	0	0	0	0.3	2264	28.3	21.2	21.6	40.5	0
392	14.5	-0.1	0.92	1	83	0	0	0.8	-3.61	33.3	1	11.7	6.1	23	1.04	39.95	2.58	0	0	0	0	0.6	2299	28.3	22	22.4	40	0
483	14.7	-0.09	0.93	1	83	0	0	1.4	-3.66	33.3	1	12.4	6.4	23	1.06	41.02	2.6	0	0	0	0	0.4	2332	28.3	22	22.7	40	0
575	14.6	-0.07	0.93	1	83	0	0	0.9	-3.86	33.3	1	12.6	6.4	23	1.07	42.23	2.6	0	0	0	0	0.3	2363	28.3	22.4	23.1	39.5	0
672	14.6	-0.07	0.93	1	83	0	0	1.2	-3.96	66.7	1	12.7	6.4	23	1.08	43.05	2.62	0	0	0	0	0.3	2384	29.6	22.4	22.7	40	0
767	14.5	-0.07	0.93	1	83	0	0	0.1	-4.1	66.7	1	12.9	6.4	24	1.09	43.88	2.64	0	0	0	0	0.3	2412	29.6	22.7	22.7	39.5	0
878	14.4	-0.07	0.93	1	83	0	0	-1	-4.2	66.7	1	13	6.4	24	1.1	44.56	2.66	0	0	0	0	0.7	2429	29.6	22.7	23.1	39.5	0
981	14.5	-0.06	0.93	1	83	0	0	-0.6	-4.35	66.7	1	13.7	6.7	24	1.12	45.86	2.68	0	0	0	0	0.8	2449	29.6	22.7	23.1	39	0
1072	14.6	-0.05	0.93	1	83	0	0	-0.4	-4.44	66.7	1	13.9	6.7	24	1.14	47.2	2.7	0	0	0	0	0.8	2495	29.6	22.7	23.1	39	0
1168	14.7	-0.05	0.93	1	83	0	0	0.1	-4.59	66.7	1	14	6.7	24	1.12	46.9	2.68	0	0	0	0	0.8	2514	31.5	23.5	23.1	39	0
1263	14.6	0.1	0.93	1	83	0	0	0.1	-4.64	66.7	1	15.4	7.2	24	1.45	62.04	2.92	0	0	0	0	0.7	2565	31.5	31.4	36.5	35	0
1358	14.1	0.19	0.99	1	83	0	0	-1.3	-4.79	66.7	1	18	8.4	24	1.56	66.66	2.98	0	0	0	0	0.9	2571	31.5	31.8	39.6	30.5	1.6
1454	14	0.22	1.05	1	83	0	0	-3.3	-6.79	66.7	1	20.3	9.2	24	1.53	67.19	3.02	0	0	0	0	0.8	2642	31.5	32.2	40.4	30	2
1551	14.6	0.26	1.06	1	83	0	0	3.2	-6.79	66.7	1	21.4	9.7	24	1.61	71.06	3.06	0	0	0	0	0.7	2649	32.8	32.2	40	29	1.6
1662	13.8	0.29	1.05	1	83	0	0	2.9	-6.79	66.7	1	22.7	10	24	1.64	74.28	3.1	0	0	0	0	0.9	2725	32.8	33.3	40.4	28.5	1.6
1759	13.3	0.34	1.05	1	83	0	0	2.1	-6.79	66.7	1	23.3	10.2	24	1.72	78.53	3.14	0	0	0	0	0.9	2739	32.8	36.1	42.7	27	3.1
1855	13	0.41	1.06	1	83	0	0	2.2	-6.79	66.7	1	25.2	10.8	24	1.84	85.93	3.22	0	0	0	0	0.9	2797	32.8	40.4	49	25.5	4.3
1950	12.5	0.45	1.08	1	83	0	0	1.1	-6.79	66.7	1	27	11.3	24	1.9	90.94	3.28	0	0	0	0	1	2867	32.8	42.7	51	24.5	7.5
2046	12.2	0.5	1.1	1	83	0	0	-0.6	-6.79	66.7	1	27.5	11.5	24	1.97	94.51	3.34	0	0	0	0	1	2873	34.7	44.7	54.1	23.5	8.6
2143	12.6	0.54	1.12	0	83	0	0	0	-6.79	100	1	29.1	11.8	24	1.97	97.43	3.36	0	0	0	0	1	2961	34.7	47.1	54.1	23.5	9
2243	12.3	0.56	1.12	0	83	0	0	0	-6.79	100	1	30.1	12	24	2	100.02	3.38	0	0	0	0	1	3007	34.7	50.6	56.9	23	11
2336	12.1	0.59	1.13	0	83	0	0	0	-6.79	100	1	31.4	12.3	24	2.05	104.87	3.42	0	0	0	0	1	3063	34.7	61.6	65.9	23	13.3
2452	11.5	0.61	1.13	0	83	0	0	0	-6.79	100	1	33.4	12.8	24	2.1	109.81	3.46	0	0	0	0	1	3130	34.7	71.8	78.4	22.5	34.1
2543	11.5	0.67	1.19	0	83	0	0	0	-6.79	100	1	34.6	13.1	24	2.16	114.43	3.54	0	0	0	0	1	3172	37.3	83.9	88.6	22.5	43.1
2637	11	0.73	1.23	0	83	0	0	0	-6.79	100	1	37.3	13.8	24	2.3	124.6	3.66	0	0	0	0	1	3247	37.3	100	100	21.5	69.4
2740	11	0.83	1.32	0	83	0	0	0	-6.79	100	1	40.9	14.8	24	2.44	134.5	3.72	0	0	0	0	1	3313	37.3	100	100	20	69.4
2831	11	0.94	1.32	0	83	0	0	0	-6.79	100	1	46.2	16.4	24	2.7	152.32	3.82	0	0	0	0	1	3382	37.3	100	100	18	69.4
2927	11	1.05	1.32	0	83	0	0	0	-6.79	100	1	51.6	17.9	24	2.82	162.28	3.94	0	0	0	0	1	3456	37.3	100	100	16.5	69.4
3027	11	1.18	1.32	0	83	0	0	0	-6.79	100	1	56.6	19.2	24	3.07	181.04	4.02	0	0	0	0	1	3539	40.5	100	100	16.5	69.4
3118	11	1.27	1.32	0	83	0	0	0	-6.79	100	1	61.5	20.5	24	3.12	186.98	4.12	0	0	0	0	1	3599	40.5	100	100	17	69
3229	11	1.33	1.32	0	83	0	0	0	-6.79	100	1	64.9	21.2	24	3.31	202.55	4.18	0	0	0	0	1	3674	40.5	100	100	17	68.2
3327	11	1.37	1.32	0	83	0	0	0	-6.79	100	1	67.4	21.5	24	3.24	203.38	4.16	0	0	0	0	1	3761	40.5	100	100	17	67.5
3422	11	1.38	1.32	0	83	0	0	0	-6.79	100	1	68.2	21.2	24	3.32	213.61	4.24	0	0	0	0	1	3858	40.5	100	100	17	66.3
3518	11	1.37	1.32	0	83	0	0	0	-6.79	100	1	69.4	21.2	24	3.23	211.55	4.22	0	0	0	0	1	3927	45	100	100	17	65.9
3614	11	1.36	1.32	0	83	0	0	0	-6.79	100	1	67.1	20	24	3.17	212.38	4.24	0	0	0	0	1	4025	45	100	100	17	65.5
3711	11	1.34	1.32	0	83	0	0	0	-6.79	100	1	69.9	20.5	24	3.14	214.44	4.26	0	0	0	0	1	4094	45	100	100	17	65.9
3819	11	1.32	1.32	0	83	0	0	0	-6.79	100	1	70.2	20.2	24	3.14	218.56	4.26	0	0	0	0	1	4172	45	100	100	17.5	66.3
3903	11	1.32	1.31	0	83	0	0	0	-6.79	100	1	71.1	20	24	3.05	216.9	4.28	0	0	0	0	1	4268	45	100	100	17.5	66.7
4013	11	1.32	1.31	0	83	0	0	0	-6.79	100	1	72	20	24	3.13	225.61	4.32	0	0	0	0	1	4318	50.1	100	100	17.5	67.1
4110	11	1.31	1.31	0	83	0	0	0	-6.79	100	1	73.7	20	24	3.09	227.29	4.32	0	0	0	0	1	4420	50.1	100	100	18.5	67.1
4206	11	1.3	1.3	0	83	0	0	0	-6.79	100	1	72.3	19.5	24	3.13	232.37	4.34	0	0	0	0	1	4451	50.1	100	100	19	67.5
4331	11	1.3	1.3	0	83	0	0	0	-6.79	100	1	76.1	20	24	3.1	236.17	4.34	0	0	0	0	1	4567	50.1	100	100	20.5	67.5
4398	11	1.3	1.29	0	83	0	0	0	-6.79	100	1	75	19.5	24	3.1	238.28	4.36	0	0	0	0	1	4615	55.3	100	100	21.5	67.5
4494	11	1.29	1.29	0	83	0	0	0	-6.79	100	1	76.7	19.5	24	3.03	237.85	4.38	0	0	0	0	1	4717	55.3	100	100	22.5	68.2
4591	11	1.27	1.28	0	83	0	0	0	-6.79	100	1	74	18.7	24	3.01	238.27	4.38	0	0	0	0	1	4749	55.3	100	100	23.5	68.2
4708	11	1.26	1.28	0	83	0	0	0	-6.79	100	1	77.4	19.2	24	3	241.65	4.38	0	0	0	0	1	4837	55.3	100	100	24	63.9
4800	11	1.24	1.27	0	83	0	0	0	-6.79	100	1	78.4	19.2	24	2.96	242.07	4.4	0	0	0	0	1	4902	55.3	100	100	24	63.9
4900	11	1.21	1.27	0	83	0	0	0	-6.79	100	1	78.4	18.9	24	2.93	243.33	4.42	0	0	0	0	1	4976	59.8	100	100	23	65.1
4990	11	1.19	1.27	0	83	0	-1.4	0	-6.79	100	1	77.6	18.4	24	2.87	242.49	4.42	0	0	0	0	1	5061	59.8	100	100	23	66.3
5085	11	1.17	1.26	0	83	0	-1.4	0	-6.79	100	1	80.1	18.7	24	2.88	246.33	4.42	0	0	0	0	1	5140	59.8	100	100	23	67.5
5189	11	1.17	1.26	0	83	0	-1.4	0	-6.79	100	1	80.3	18.7	24	2.9	248.49	4.44	0	0	0	0	1	5150	59.8	100	100	23.5	68.6
5277	11	1.17	1.25	0	83	0	-1.4	0	-6.79	100	1	82	18.7	24	2.86	250.65	4.44	0	0	0	0	1	5263	59.8	100	100	23.5	69.8
5377	11	1.19	1.25	0	83	0	-1.4	0	-6.79	100	1	3.4	0.8	24	2.98	249.79	4.44	0	0	0	0	1	5034	64.2	100	100	24	0
5487	11	0.8	1.25	0	83	0	0	0	-6.79	33.3	1	3.5	0.8	24	2.13	188.38	4.06	0	0	0	0	0.2	5310	64.2	100	100	26.5	0
5587	11.6	0.64	1.27	0	83	0	-1.2	0	-6.79	100	1	60.7	13.3	24	2.19	200.45	4.16	0	0	0	0	0.1	5480	64.2	59.6	100	28.5	57.3
5678	12.4	-0.15	1.17	0	83	0	-1.4	0	-6.79	100	1	39.4	7.9	24	1.66	165.64	3.8	0	0	0	0	0.9	5978	64.2	0	17.6	24	0
14302	14.7	-0.48	0.9	1	83	0	0	2.1	-3.61	33.3	1	11.4	3.6	24	0.54	34.64	2.46	0	0	0	0	0.7	3815	68.7	18	17.6	43.5	0
14392	14.7	-0.49	0.9	1	83	0	0	2.4	-3.61	33.3	1	11.4	3.6	24	0.54	34.27	2.44	0	0	0	0	0.7	3789	68.7	18	17.6	43.5	0
14504	14.6	-0.49	0.9	1	83	0	0	1.7	-3.61	33.3	1	11.4	3.6	24	0.55	34.64	2.44	0	0	0	0	0.7	3793	68.7	18	17.6	43.5	0
14601	14.7	-0.48	0.9	1	83	0	0	2.5	-3.52	33.3	1	11.4	3.6	24	0.54	34.15	2.44	0	0	0	0	0.6	3811	68.7	18.4	17.6	43.5	0
14696	14.6	-0.48	0.91	1	83	0	0	1.8	-3.52	33.3	1	11.4	3.6	24	0.54	34.39	2.46	0	0	0	0	0.6	3810	68.7	18	17.6	43.5	0
14792	14.6	-0.48	0.9	1	83	0	0	2.2	-3.52	33.3	1	11.4	3.6	24	0.54	34.02	2.44	0	0	0	0	0.5	3805	68.7	18	17.6	43.5	0
14890	14.6	-0.48	0.9	1	83	0	0	2	-3.52	33.3	1	11.4	3.6	24	0.54	34.15	2.44	0	0	0	0	0.5	3785	68.7	18	17.6	43.5	0