Time (sec)	Engine Speed (RPM)	Ignition Angle (Actual) 2 (°)	Injection Time (ms)	Intake-Air Temperature (° F)	Knock Sums Cyl. 1 (knock)	Knock Sums Cyl. 2 (knock)	Knock Sums Cyl. 3 (knock)	Knock Sums Cyl. 4 (knock)	Knock Sums Cyl. 5 (knock)	Knock Sums Cyl. 6 (knock)	Lambda Bank 1 (AFR)	Lambda Bank 2 (AFR)	Load (Relative) (%)	Load (rlp) (%)	Long Term Fuel Trim Bank 1 (%)	Long Term Fuel Trim Bank 2 (%)	Manifold Absolute Pressure (PSI)	Short Term Fuel Trim Bank 1 (%)	Short Term Fuel Trim Bank 2 (%)	Target Boost Pressure (PSI)	Throttle Angle (%)	Wastegate Duty Cycle (%)
13.092	2793	6	4.88	90.05	0	0	0	0	0	0	16.02	13.82	79.27	78	1	1	0.2	1.18	1.15	0.6	32.94	0.47
13.42	2866	9.75	5.18	90.05	0	0	0	0	0	0	13.96	13.67	79.97	81.75	1	1	0.2	1.18	1.09	2.1	29.8	0.47
13.505	2900	7.5	5.51	90.05	0	0	0	0	0	0	14.41	14.55	86.79	85.5	1	1	1.3	1.18	1.09	2.2	32.94	0.47
13.579	2887	6.75	5.74	90.05	0	0	0	0	0	0	14.7	14.85	88.2	87	1	1	1.5	1.19	1.11	2.1	31.37	0.47
13.666	2950	5.25	5.66	90.05	0	0	0	0	0	0	13.67	13.96	87.4	86.25	1	1	1.4	1.19	1.12	1.8	29.02	0.47
13.749	2973	6.75	5.59	90.05	0	0	0	0	0	0	13.38	13.82	86.06	85.5	1	1	1.1	1.18	1.11	1.7	27.84	0.47
13.826	2956	6	5.37	90.05	0	0	0	0	0	0	13.23	13.67	84.87	84	1	1	1	1.16	1.11	1.8	26.27	0.47
13.908	3017	8.25	5.28	90.05	0	0	0	0	0	0	13.38	13.67	84.49	84	1	1	0.8	1.15	1.1	2.6	25.88	0.47
13.982	3005	9	5.7	90.05	0	0	0	0	0	0	13.23	13.67	88.27	89.25	1	1	1.4	1.14	1.1	3	29.02	0.47
14.059	3044	6.75	5.82	90.05	0	0	0	0	0	0	14.11	14.11	92.79	92.25	1	1	2.1	1.14	1.1	2.9	30.2	0.47
14.141	3088	6	6.03	90.05	0	0	0	0	0	0	13.96	14.41	93.94	93	1	1	2.3	1.15	1.12	2.8	29.41	0.47
14.234	3095	6	6.05	90.05	0	0	0	0	0	0	13.23	13.52	93.02	91.5	1	1	2.1	1.15	1.12	2.2	27.84	0.47
14.31	3140	6.75	5.52	90.05	0	0	0	0	0	0	12.79	12.64	88.62	87	1	1	1.4	1.12	1.09	2.1	25.1	0.47
14.394	3141	4.5	5.05	90.05	0	0	0	0	0	0	12.79	12.94	85.92	84	1	1	1	1.1	1.07	0.2	23.92	0.47
45.081	2028	18.75	4.39	87.35	0	0	0	0	0	0	16.46	14.99	76.29	75.75	1	1	0.1	1.09	1.15	4.7	37.25	4.22
45.165	2050	20.25	4.46	87.35	0	0	0	0	0	0	15.29	14.26	76.99	76.5	1	1	0.2	1.12	1.15	5	33.73	4.14
45.242	2082	20.25	4.64	87.35	0	0	0	0	0	0	14.7	13.67	77.6	77.25	1	1	0.3	1.14	1.14	5.1	34.12	4.22
45.326	2105	18.75	4.5	87.35	0	0	0	0	0	-1.5	14.55	13.52	78.59	78	1	1	0.4	1.13	1.11	5.1	35.69	4.53
45.41	2133	18	4.53	87.35	0	0	0	0	0	-1.5	14.7	13.96	79.76	78.75	1	1	0.6	1.13	1.1	5.3	36.08	4.3
45.492	2182	18	4.67	87.35	0	0	0	0	0	-1.5	15.14	14.26	80.55	80.25	1	1	0.7	1.14	1.09	5.4	36.08	4.14
45.568	2196	15.75	4.81	87.35	0	0	0	0	0	-1.5	14.99	14.55	81.54	81	1	1	0.8	1.15	1.08	5.1	36.86	4.41
45.652	2212	14.25	4.86	87.35	0	0	0	0	0	-1.5	14.99	14.7	82.66	81.75	1	1	0.9	1.16	1.09	5.1	36.86	4.14
45.728	2276	12.75	4.95	87.35	0	0	0	0	0	-1.5	14.99	14.85	83.44	82.5	1	1	1.1	1.16	1.09	4.7	36.86	4.1
45.812	2287	11.25	5.25	87.35	0	0	0	0	0	-1.5	15.14	14.99	84.96	84	1	1	1.3	1.16	1.09	4.8	38.43	4.34
45.904	2352	9.75	5.36	87.35	0	0	0	0	0	-1.5	14.7	14.99	86.16	85.5	1	1	1.5	1.16	1.11	4	38.04	4.3
45.98	2354	6	5.42	87.35	0	0	0	0	0	-1.5	14.26	14.7	87.33	86.25	1	1	1.7	1.16	1.12	3.1	38.04	0.74
46.055	2340	0	4.55	87.35	0	0	0	0	0	-1.5	14.26	14.55	88.1	79.5	1	1	1.8	1.16	1.12	0	28.24	0
47.024	2474	12.75	4.06	87.35	0	0	0	0	0	0	20.87	18.08	77.86	77.25	1	1	0.1	1	1	3.2	40.78	4.57
47.107	2471	11.25	4.16	87.35	0	0	0	0	0	0	19.4	17.64	79.31	78.75	1	1	0.3	1	1	3.3	40.39	0.47
47.181	2588	9.75	4.14	87.35	0	0	0	0	0	0	18.08	17.2	80.55	78.75	1	1	0.5	1	1.01	2.4	40.39	3.91
47.267	2563	9	4.27	87.35	0	0	0	0	0	0	17.05	16.9	82.31	81	1	1	0.8	1	1.05	2.5	41.18	3.2
47.352	2585	10.5	4.5	87.35	0	0	0	0	0	0	17.05	16.17	84	83.25	1	1	1	1.04	1.1	3	40.39	4.14
47.445	2608	9	4.96	87.35	0	0	0	0	0	0	17.05	15.73	86.3	85.5	1	1	1.4	1.1	1.13	2.9	41.18	0.82
47.521	2610	6.75	5.35	87.35	0	0	0	0	0	0	16.76	15.43	88.34	87	1	1	1.7	1.15	1.15	2.8	41.57	0.47
47.604	2707	5.25	5.65	87.35	0	0	0	0	0	0	15.43	14.85	90.54	87.75	1	1	2	1.18	1.16	2.2	38.43	0.47
47.679	2671	5.25	5.58	87.35	0	0	0	0	0	0	14.26	13.96	88.41	87	1	1	1.7	1.18	1.15	2	31.76	0.47
47.764	2732	9.75	5.58	87.35	0	0	0	0	0	0	13.67	13.38	84.89	87	1	1	1.1	1.17	1.13	3.5	28.63	0.47
47.846	2764	9	6.05	87.35	0	0	0	0	0	0	13.96	13.23	95.62	94.5	1	1	2.8	1.16	1.11	4.3	42.35	0.66
47.918	2792	6.75	6.51	87.35	0	0	0	0	0	0	14.85	14.41	98.18	97.5	1	1	3.2	1.18	1.11	4.1	43.53	0.47
47.999	2829	6	6.71	87.35	0	0	0	0	0	0	14.11	14.26	99.66	97.5	1	1	3.4	1.19	1.13	3.7	37.65	0.47
48.078	2830	6	6.49	87.35	0	0	0	0	0	0	13.08	13.23	96.89	96	1	1	3	1.16	1.11	3.7	32.16	0.47
48.164	2910	6	6.26	87.35	0	0	0	0	0	0	13.08	13.08	95.81	94.5	1	1	2.7	1.14	1.09	3.5	29.8	0.47
48.24	2942	6	6.06	87.35	0	0	0	0	0	0	13.08	13.08	95.2	93.75	1	1	2.7	1.13	1.08	3.3	29.02	0.47
48.326	2992	6.75	5.92	87.35	0	0	0	0	0	0	13.38	13.23	93.94	93	1	1	2.4	1.12	1.07	3.1	28.24	0.47
48.407	2992	6.75	5.86	87.35	0	0	0	0	0	0	13.23	13.52	93.8	93	1	1	2.4	1.11	1.06	3.2	27.84	0.47
48.483	3030	6.75	5.79	87.35	0	0	0	0	0	0	13.67	13.67	93.33	92.25	1	1	2.2	1.11	1.07	3	27.06	0.47
48.56	3088	6	5.79	87.35	0	0	0	0	0	0	13.82	13.67	93.23	92.25	1	1	2.2	1.12	1.07	2.7	27.06	0.47
48.645	3088	5.25	5.76	87.35	0	0	0	0	0	0	13.52	13.82	92.27	90.75	1	1	2	1.12	1.07	1.9	26.27	0.47
48.729	3118	6.75	5.33	87.35	0	0	0	0	0	0	13.52	13.67	87.77	86.25	1	1	1.2	1.11	1.08	1.7	23.53	0.47
48.813	3136	6.75	5.18	87.35	0	0	0	0	0	0	13.38	13.52	84.82	84	1	1	0.7	1.11	1.08	1.6	23.53	0.47
48.897	3206	6.75	5.06	87.35	0	0	0	0	0	0	13.52	13.67	83.86	82.5	1	1	0.5	1.12	1.09	1.2	23.53	0.47
48.981	3194	7.5	5.05	87.35	0	0	0	0	0	0	13.52	13.82	82.97	82.5	1	1	0.3	1.12	1.1	1.3	23.53	0.47
49.067	3227	7.5	5.03	87.35	0	0	0	0	0	0	13.96	13.82	82.48	81.75	1	1	0.2	1.13	1.11	1.1	23.53	0.47
63.933	4300	7.5	5.9	87.35	0	0	0	0	0	0	13.96	14.26	89.77	90	1	1	0.1	1.13	1.09	1.1	30.98	0.47
64.011	4382	5.25	6.29	87.35	0	0	0	0	0	0	13.38	13.82	93.16	91.5	1	1	0.5	1.15	1.11	0.8	30.59	0.47
64.1	4406	5.25	6.62	87.35	0	0	0	0	0	0	12.79	12.94	92.77	91.5	1	1	0.4	1.15	1.13	0.7	29.41	0.47
64.177	4460	8.25	6.57	87.35	0	0	0	0	0	0	11.76	12.2	91.57	91.5	1	1	0.1	1.14	1.12	2.6	28.24	0.47
64.253	4568	14.25	7.44	87.35	0	0	0	0	0	0	11.47	11.91	99.05	102.75	1	1	1.2	1.12	1.11	4.9	32.55	0.47
64.34	4723	13.5	10.16	87.35	0	0	0	0	0	0	11.61	11.76	132.61	132	1	1	5.4	1.09	1.1	9.3	56.08	1.21
64.417	4709	6	12.12	87.35	0	0	0	0	0	0	11.17	11.47	147.7	147	1	1	8.1	1.08	1.1	9.7	68.24	2.81
64.506	4945	13.5	14.2	87.35	0	0	0	0	0	0	11.61	11.47	161.98	161.25	1	1	10.1	1.1	1.11	15.7	100	2.3
64.577	5138	15	15.07	87.35	0	0	0	0	0	0	10.88	11.02	173.95	173.25	1	1	11.9	1.1	1.11	16.7	100	0.47
64.665	5214	12	16.05	87.35	0	0	0	0	0	0	11.32	11.32	185.09	184.5	1	1	13.8	1.1	1.12	16.8	100	0.47
64.739	5460	11.25	17.37	87.35	0	0	0	0	0	0	11.32	11.61	199.59	191.25	1	1	16.6	1.11	1.14	16.9	100	1.13
64.829	5687	12	16.63	87.35	0	0	0	0	0	0	11.02	11.17	197.6	191.25	1	1	16.9	1.11	1.14	16.9	100	0.47

Time (sec)	Engine Speed (RPM)	Ignition Angle (Actual) 2 (°)	Injection Time (ms)	Intake-Air Temperature (° F)	Knock Sums Cyl. 1 (knock)	Knock Sums Cyl. 2 (knock)	Knock Sums Cyl. 3 (knock)	Knock Sums Cyl. 4 (knock)	Knock Sums Cyl. 5 (knock)	Knock Sums Cyl. 6 (knock)	Lambda Bank 1 (AFR)	Lambda Bank 2 (AFR)	Load (Relative) (%)	Load (rlp) (%)	Long Term Fuel Trim Bank 1 (%)	Long Term Fuel Trim Bank 2 (%)	Manifold Absolute Pressure (PSI)	Short Term Fuel Trim Bank 1 (%)	Short Term Fuel Trim Bank 2 (%)	Target Boost Pressure (PSI)	Throttle Angle (%)	Wastegate Duty Cycle (%)
64.917	5892	12	15.68	87.35	0	0	0	0	0	0	10.88	11.02	186.09	186	1	1	16.8	1.11	1.14	16.8	100	0.47
65.004	6172	12.75	14.55	88.7	0	0	0	0	0	0	10.88	11.02	174.33	174	1	1	16.8	1.11	1.14	17.2	100	0.47
65.081	6260	13.5	14.82	88.7	0	0	0	0	0	0	11.02	10.88	171.77	171.75	1	1	16.3	1.11	1.14	10.8	100	0.47
65.157	5776	12	15.59	88.7	0	0	0	0	0	0	10.88	10.88	175.45	174.75	1	1	14.6	1.11	1.14	0	45.88	0.47
65.918	4133	23.25	5.01	90.05	0	0	0	0	0	0	18.67	17.05	94.41	92.25	1	1	0.9	1	1	8.1	71.37	6.99
66.001	4230	22.5	5.31	90.05	0	0	0	0	0	0	17.79	17.35	100.15	99	1	1	1.8	1	1	8.2	97.65	4.8
66.077	4167	21	6.01	90.05	0	0	0	0	0	0	17.64	17.64	107.37	106.5	1	1	3	1.02	1.02	8.4	100	4.69
66.153	4283	16.5	7	90.05	0	0	0	0	0	0	17.05	16.32	117.54	115.5	1	1	4.4	1	1	10	100	5.08
66.24	4272	9.75	7.88	90.05	0	0	0	0	0	0	16.02	16.17	129.68	126.75	1	1	6.1	1	1	10	100	2.34
66.321	4302	3.75	9.67	90.05	0	0	0	0	0	0	15.29	15.58	140.44	138	1	1	7.8	1.07	1.07	9.9	100	2.62
66.399	4350	1.5	13.01	90.05	0	0	0	0	0	0	14.26	14.7	154.8	150.75	1	1	9.9	1.16	1	10.2	100	4.61
66.474	4411	1.5	16.98	90.05	0	0	0	0	0	0	12.35	13.96	178.45	174.75	1	1	13.3	1.22	1	9.3	100	0.47
66.554	4442	-0.75	15.48	90.05	0	0	0	0	0	0	11.02	13.08	187.5	161.25	1	1	14.5	1.2	1.01	8.4	81.18	0.47
66.644	4438	-0.75	14.27	90.05	0	0	0	0	0	0	10.73	12.64	156.49	150	1	1	9.9	1.2	1.05	8.4	34.12	0.47
66.72	4571	2.25	13.07	90.05	0	0	0	0	0	0	10.73	11.02	139.45	137.25	1	1	7.2	1.2	1.06	7.8	32.16	0.47
66.798	4608	3.75	12.97	91.4	0	0	0	0	0	0	10.73	10.88	137.16	136.5	1	1	6.9	1.2	1.05	7.7	32.94	0.47
66.889	4565	3	13.19	91.4	0	0	0	0	0	0	10.73	10.88	139.12	138.75	1	1	7.1	1.2	1.05	7.8	34.12	0.47
66.966	4623	5.25	13	91.4	0	0	0	0	0	0	10.73	10.73	138.26	138	1	1	7	1.2	1.05	7.8	34.9	0.47
67.051	4628	5.25	12.78	91.4	0	0	0	0	0	0	10.73	10.88	135.91	135.75	1	1	6.7	1.2	1.05	7.8	34.51	0.47
67.126	4631	4.5	12.2	91.4	0	0	0	0	0	0	10.73	10.73	131.44	131.25	1	1	5.9	1.2	1.05	7.4	34.51	0.47
67.201	4602	4.5	12.3	91.4	0	0	0	0	0	0	10.73	10.88	130.76	130.5	1	1	5.8	1.2	1.05	7.4	35.29	0.47
67.284	4646	4.5	12.59	91.4	0	0	0	0	0	0	10.73	10.88	132.98	132.75	1	1	6	1.2	1.05	7.4	36.47	0.47
67.362	4808	16.5	13.11	91.4	0	0	0	0	0	0	10.73	10.73	137.48	137.25	1	1	6.7	1.2	1.05	12.8	42.75	0.47
67.439	4860	21.75	16.69	91.4	0	0	0	0	0	-1.5	10.73	11.17	169.41	168.75	1	1	11.2	1.2	1.05	15.5	90.59	7.07
67.524	4915	19.5	16.53	91.4	0	0	0	0	0	-1.5	10.73	11.02	173.02	172.5	1	1	11.8	1.2	1.05	16.8	100	5.43
67.61	4953	21	16.34	91.4	0	0	0	0	0	-1.5	10.73	11.47	181.83	181.5	1	1	12.9	1.21	1.12	17.3	100	3.95
67.693	5060	21	15.95	91.4	0	0	0	0	0	-1.5	10.88	11.76	190.05	189.75	1	1	14.1	1.17	1.13	16.7	100	0.47
67.771	5088	21	15.91	91.4	0	0	0	0	0	-1.5	11.02	11.91	197.84	191.25	1	1	15.4	1.14	1.13	16.8	100	1.8
67.848	5256	21	14.93	92.75	0	0	0	0	0	-1.5	11.17	11.61	195.38	191.25	1	1	15.3	1.1	1.12	16.8	100	1.13
67.932	5226	21	14.7	92.75	0	0	0	0	0	-1.5	11.32	11.61	194.65	191.25	1	1	15.3	1.08	1.12	17.1	100	1.56
68.007	5362	21.75	14.23	92.75	0	0	0	0	0	-1.5	11.61	11.61	192.23	191.25	1	1	15.2	1.07	1.11	17.2	100	1.76
68.095	5398	21.75	14.03	92.75	0	0	0	0	0	-1.5	11.47	11.47	190.83	190.5	1	1	15.2	1.05	1.1	17.1	100	2.03
68.188	5544	21.75	13.66	94.1	0	0	0	0	0	-1.5	11.76	11.76	188.37	188.25	1	1	15.2	1.05	1.1	17.3	100	2.3
68.269	5590	22.5	13.41	94.1	0	0	0	0	0	-1.5	11.47	11.76	186.73	186	1	1	15.2	1.03	1.09	16.9	100	2.66
68.346	5657	22.5	13.18	94.1	0	0	0	0	0	-1.5	11.61	11.61	185.34	185.25	1	1	15.3	1.02	1.09	16.9	100	2.34
68.434	5710	23.25	13.03	94.1	0	0	0	0	0	-1.5	11.76	11.76	183.73	183	1	1	15.3	1.02	1.09	16.8	100	2.15
68.534	5804	23.25	12.58	94.1	0	0	0	0	0	-1.5	11.61	11.61	180.56	180	1	1	15.2	1.01	1.08	16.8	100	2.34
68.608	5849	23.25	12.83	94.1	0	0	0	0	0	-1.5	11.76	11.61	179.6	179.25	1	1	15.4	1.01	1.07	17	100	2.58
68.687	5990	22.5	12.24	95.45	0	0	0	0	0	-1.5	11.32	11.47	176.58	176.25	1	1	15.7	0.99	1.07	16.8	100	3.12
68.772	5992	24	11.62	95.45	0	0	0	0	0	0	11.47	11.32	173.46	173.25	1	1	15.1	0.98	1.05	16.8	100	2.19
68.857	6059	24	11.74	95.45	0	0	0	0	0	0	11.47	11.61	173.06	172.5	1	1	15.3	0.97	1.06	16.5	100	2.89
68.941	6136	25.5	11.13	96.8	0	0	0	0	0	0	11.91	11.61	168.21	168	1	1	14.9	0.98	1.05	16.7	100	2.07
69.014	6156	25.5	11.45	96.8	0	0	0	0	0	0	11.76	11.91	166.76	166.5	1	1	14.9	0.98	1.06	16.7	100	2.34
69.104	6259	26.25	11.05	96.8	0	0	0	0	0	0	11.76	11.76	164.09	163.5	1	1	14.8	0.98	1.05	16.7	100	2.54
69.182	6310	26.25	11.37	96.8	0	0	0	0	0	0	11.91	11.76	161.98	161.25	1	1	14.7	0.99	1.05	16.7	100	2.93
69.265	6360	26.25	11.03	96.8	0	0	0	0	0	0	11.76	11.91	159.49	159	1	1	14.7	0.99	1.06	17.1	100	3.12
69.356	6424	27	10.87	96.8	0	0	0	0	0	0	11.91	11.91	157.34	156.75	1	1	14.8	1.01	1.07	17	100	3.32
69.433	6436	7.5	11.37	96.8	0	0	0	0	0	0	11.91	11.91	157.31	159	1	1	14.8	1.02	1.08	6.5	100	3.2
69.518	6498	7.5	7.53	98.15	0	0	0	0	0	0	11.61	11.76	146.79	146.25	1	1	13.2	1	1	0	40.78	0
69.851	5208	24.75	8.73	99.5	0	0	0	0	0	0	27.05	25.87	96.63	96	1	1	0.9	1	1	13.6	90.98	9.49
69.935	5203	20.25	7.76	99.5	0	0	0	0	0	0	13.67	13.96	110.79	110.25	1	1	2.9	1	1	14.2	100	9.49
70.021	5246	24.75	8.95	99.5	0	0	0	0	0	0	13.52	13.96	129.61	129	1	1	5.7	1.03	1.04	14.3	100	6.29
70.112	5293	24.75	11.87	99.5	0	0	0	0	0	0	12.64	13.08	150.63	150	1	1	8.9	1.08	1.1	14.7	100	4.26
70.189	5346	23.25	13.61	99.5	0	0	0	0	0	0	12.05	12.2	171.91	171.75	1	1	12.2	1.09	1.11	17.1	100	1.05
70.274	5396	22.5	14.45	99.5	0	0	0	0	0	0	12.2	12.05	182.84	182.25	1	1	14	1.11	1.13	17.1	100	1.76
70.352	5423	21.75	15.1	99.5	0	0	0	0	0	0	11.61	12.05	192.26	191.25	1	1	15.5	1.11	1.16	17	100	0.9
70.44	5476	21.75	14.83	99.5	0	0	0	0	0	0	11.32	11.47	194.16	191.25	1	1	15.8	1.09	1.15	17.1	100	1.8
70.525	5496	21.75	14.3	99.5	0	0	0	0	0	0	11.32	11.32	191.41	191.25	1	1	15.6	1.07	1.12	17.1	100	2.27
70.601	5553	22.5	13.89	100.85	0	0	0	0	0	0	11.17	11.32	189.07	189	1	1	15.4	1.05	1.1	16.9	100	2.19
70.688	5603	22.5	13.59	100.85	0	0	0	0	0	0	11.32	11.61	188.27	188.25	1	1	15.4	1.03	1.1	16.7	100	1.91
70.777	5709	22.5	12.98	100.85	0	0	0	0	0	0	11.47	11.47	184.78	184.5	1	1	15.3	1.01	1.08	17	100	1.64
70.861	5721	23.25	12.84	100.85	0	0	0	0	0	0	11.61	11.76	182.37	182.25	1	1	15.3	1.01	1.08	16.8	100	2.3
70.956	5740	23.25	12.93	100.85	0	0	0	0	0	0	11.76	11.61	181.29	180.75	1	1	15.1	1.02	1.09	16.8	100	2.15
71.034	5769	15.75	13.03	100.85	0	0	0	0	0	0	11.76	11.76	180.66	180	1	1	15.2	1.03	1.09	16.9	100	2.54
71.122	5786	3.75	13.23	102.2	0	0	0	0	0	0	12.05	11.76	177.35	177	1	1	14.9	1.05	1.1	3.5	74.51	0.47

Time (sec)	Engine Speed (RPM)	Ignition Angle (Actual) 2 (°)	Injection Time (ms)	Intake-Air Temperature (° F)	Knock Sums Cyl. 1 (knock)	Knock Sums Cyl. 2 (knock)	Knock Sums Cyl. 3 (knock)	Knock Sums Cyl. 4 (knock)	Knock Sums Cyl. 5 (knock)	Knock Sums Cyl. 6 (knock)	Lambda Bank 1 (AFR)	Lambda Bank 2 (AFR)	Load (Relative) (%)	Load (rlp) (%)	Long Term Fuel Trim Bank 1 (%)	Long Term Fuel Trim Bank 2 (%)	Manifold Absolute Pressure (PSI)	Short Term Fuel Trim Bank 1 (%)	Short Term Fuel Trim Bank 2 (%)	Target Boost Pressure (PSI)	Throttle Angle (%)	Wastegate Duty Cycle (%)
71.208	5657	3	0.59	102.2	0	0	0	0	0	0	10.73	10.73	88.55	88.5	1	1	0.5	1	1	0	12.55	0
84.132	3028	27	4.15	95.45	0	0	0	0	0	0	18.52	17.49	79.92	78.75	1	1	0.2	1	1	6.7	47.06	6.91
84.215	2968	25.5	4.26	94.1	0	0	0	0	0	0	18.08	17.2	82.2	80.25	1	1	0.6	1	1	9	45.49	3.67
84.292	3035	26.25	4.45	94.1	0	0	0	0	0	0	18.38	17.35	84.94	83.25	1	1	0.9	1	1	8.7	49.8	5.31
84.378	3059	26.25	4.55	94.1	0	0	0	0	0	0	17.93	17.2	86.95	85.5	1	1	1.3	1	1	8.8	45.1	4.96
84.453	3088	26.25	4.75	94.1	0	0	0	0	0	0	17.35	16.61	89.74	89.25	1	1	1.7	1	1	8.5	45.88	5.39
84.53	3099	25.5	4.85	94.1	0	0	0	0	0	0	16.9	16.17	92.2	91.5	1	1	2.1	1	1	8.7	45.88	5.66
84.619	3108	24.75	5.01	94.1	0	0	0	0	0	0	16.76	16.17	94.92	94.5	1	1	2.5	1	1	11	64.31	5.2
84.697	3113	24.75	5.19	94.1	0	0	0	0	0	0	17.79	16.76	97.97	97.5	1	1	3	1	1	11.8	100	8.83
84.779	3107	24	5.36	94.1	0	0	0	0	0	0	17.49	16.46	101.06	99.75	1	1	3.5	1	1	15.2	100	9.49
84.857	3133	24	5.58	94.1	0	0	0	0	0	0	17.2	16.46	104.39	103.5	1	1	4	1	1	15.2	100	9.49
84.933	3126	23.25	5.79	94.1	0	0	0	0	0	0	17.35	16.9	107.88	106.5	1	1	4.6	1	1	15.2	100	9.49
85.02	3196	22.5	6.03	94.1	0	0	0	0	0	0	17.49	17.2	111.33	110.25	1	1	5.1	1	1	15.2	100	9.1
85.094	3182	22.5	6.23	94.1	0	0	0	0	0	0	17.79	16.76	113.91	113.25	1	1	5.5	1	1	15.4	100	8.16
85.18	3164	21.75	6.45	94.1	0	0	0	0	0	0	17.35	16.17	117.82	116.25	1	1	6.1	1	1	15.1	100	7.34
85.263	3244	21	6.76	94.1	0	0	0	0	0	0	17.35	16.46	121.43	120.75	1	1	6.6	1	1	14.8	100	7.77
85.34	3265	12.75	7.05	94.1	0	0	0	0	0	0	16.9	16.17	124.78	123.75	1	1	7.2	1	1	13.1	100	4.18
85.418	3218	9	7.54	94.1	0	0	0	0	0	0	16.76	16.02	129.33	128.25	1	1	8	1	1	13.2	100	0.47
85.501	3214	6.75	8.04	94.1	0	0	0	0	0	0	16.32	15.88	135.23	133.5	1	1	8.7	1	1	13.4	100	2.46
85.587	3352	3.75	8.84	94.1	0	0	0	0	0	0	16.02	15.58	140.18	139.5	1	1	9.4	1	1	12.1	100	0.47
85.657	3308	2.25	9.65	94.1	0	0	0	0	0	0	15.29	14.85	144.47	143.25	1	1	10.2	1	1	11.8	100	4.88
85.745	3290	0	10.35	94.1	0	0	0	0	0	0	14.55	14.26	150.21	148.5	1	1	11.1	1	1	11.3	100	4.3
85.825	3335	-2.25	11.66	94.1	0	0	0	0	0	0	14.11	13.82	157.45	156	1	1	12.1	1	1	9.5	100	3.01
85.912	3344	-2.25	12.42	94.1	0	0	0	0	0	0	13.23	13.23	161.3	160.5	1	1	12.9	1	1	9.6	100	0.47
85.991	3342	-2.25	12.58	94.1	0	0	0	0	0	0	12.79	12.35	162.54	162.75	1	1	12.9	1	1	9.2	100	0.47
86.08	3376	-4.5	12.07	94.1	0	0	0	0	0	0	12.2	12.05	162.42	153	1	1	12.9	1	1	7.9	91.76	0.47
86.156	3355	-4.5	10.73	94.1	0	0	0	0	0	0	12.2	12.2	144.7	133.5	1	1	10.5	1	1	6.5	27.06	0.47
86.24	3395	0	8.47	94.1	0	0	0	0	0	0	11.17	10.88	117.4	112.5	1	1	5.6	1	1	5.3	22.35	0.47
86.317	3425	3	7.05	94.1	0	0	0	0	0	0	10.88	10.73	105.66	103.5	1	1	3.7	1	1	3.6	22.35	0.47
86.393	3404	6.75	6.39	94.1	0	0	0	0	0	0	11.47	11.17	98.91	95.25	1	1	2.6	1	1	1.2	21.57	0.47
86.471	3408	8.25	4.72	94.1	0	0	0	0	0	0	12.05	11.47	85.41	81.75	1	1	0.4	1	1	0.2	20	0.47
111.53	3190	20.25	5.27	87.35	0	0	0	0	0	0	14.85	15.14	83.32	81	1	1	0.4	1.21	1.21	5.3	48.24	1.84
111.614	3225	17.25	5.46	87.35	0	0	0	0	0	0	14.85	14.26	86.62	84	1	1	0.9	1.2	1.2	5.2	47.45	0.47
111.69	3246	24.75	5.78	87.35	0	0	0	0	0	0	14.55	14.11	90.19	88.5	1	1	1.4	1.2	1.2	10.8	47.45	9.49
111.78	3270	24	5.98	87.35	0	0	0	0	0	0	13.96	13.52	93.52	91.5	1	1	2	1.2	1.18	16.5	91.76	9.49
111.857	3282	23.25	6.41	87.35	0	0	0	0	0	0	14.55	14.41	97.57	96.75	1	1	2.6	1.2	1.18	18.5	100	9.49
111.939	3296	23.25	6.66	87.35	0	0	0	0	0	0	13.82	13.38	101.62	100.5	1	1	3.2	1.19	1.17	18.5	100	9.49
112.016	3364	23.25	6.98	87.35	0	0	0	0	0	0	13.96	13.96	106.76	105	1	1	4	1.18	1.16	18.5	100	9.49
112.092	3371	23.25	8.51	88.7	0	0	0	0	0	0	13.82	13.67	111.19	110.25	1	1	4.6	1.18	1.15	18.5	100	9.49
112.179	3402	21.75	9.38	88.7	0	0	0	0	0	0	12.94	12.79	116.3	114.75	1	1	5.4	1.18	1.15	18.5	100	9.49
112.261	3428	21	9.94	88.7	0	0	0	0	0	0	12.35	12.2	122.02	120	1	1	6.2	1.2	1.17	18.6	100	9.49
112.339	3494	18.75	10.49	88.7	0	0	0	0	0	-1.5	11.91	12.05	127.55	126	1	1	7	1.2	1.17	18.5	100	9.45
112.422	3497	18.75	10.97	88.7	0	0	0	0	0	-1.5	11.76	11.76	133.71	132	1	1	8	1.18	1.16	18.6	100	8.79
112.5	3534	18.75	11.53	88.7	0	0	0	0	0	-1.5	11.61	11.61	141.05	138.75	1	1	9.1	1.18	1.16	18.9	100	7.07
112.582	3575	12.75	11.57	88.7	0	0	0	0	0	-1.5	11.76	11.91	148.8	147	1	1	10.2	1.17	1.16	18.8	100	6.33
112.661	3645	8.25	12.18	88.7	0	0	0	0	0	-1.5	12.05	12.2	157.12	155.25	1	1	11.5	1.16	1.16	16.9	100	0.47
112.738	3645	4.5	12.84	88.7	0	0	0	0	0	-1.5	12.49	12.64	164.25	162.75	1	1	12.6	1.17	1.16	14.3	100	4.61
112.823	3637	3.75	14.01	88.7	0	0	0	0	0	-1.5	12.35	12.35	170.02	165.75	1	1	13.4	1.18	1.18	13.5	100	4.3
112.899	3752	3.75	15.62	90.05	0	0	0	0	0	-1.5	11.91	11.91	174.73	171.75	1	1	14	1.21	1.2	13.2	100	2.97
112.987	3789	3.75	16.22	90.05	0	0	0	0	0	-1.5	11.17	11.02	175.83	174.75	1	1	14.2	1.2	1.2	13.4	100	2.85
113.07	3732	2.25	16.35	90.05	0	0	0	0	0	-1.5	10.88	10.73	177.45	176.25	1	1	14.4	1.2	1.2	12.5	100	1.72
113.147	3820	1.5	16.55	90.05	0	0	0	0	0	-1.5	10.88	10.73	176.93	176.25	1	1	14.3	1.2	1.2	12.1	100	0.47
113.223	3834	2.25	16.73	90.05	0	0	0	0	0	-1.5	10.73	10.73	178.36	175.5	1	1	14.4	1.2	1.2	11.9	100	0.47
113.299	3868	2.25	17.07	90.05	0	0	0	0	0	-1.5	10.73	10.73	179.16	179.25	1	1	14.5	1.2	1.2	12.1	100	0.47
113.382	3917	3	17.08	90.05	0	0	0	0	0	-1.5	10.73	10.73	180.38	179.25	1	1	14.5	1.2	1.2	12.4	100	0.47
113.469	3995	4.5	17	90.05	0	0	0	0	0	-1.5	10.73	10.73	180	178.5	1	1	14.5	1.2	1.2	13.9	100	0.47
113.549	3952	6	17.03	90.05	0	0	0	0	0	-1.5	10.73	10.73	180.75	179.25	1	1	14.5	1.2	1.2	14.5	100	0.47
113.625	4060	12	17.18	90.05	0	0	0	0	0	-1.5	10.73	10.73	181.5	180.75	1	1	14.5	1.2	1.2	17.5	100	0.74
113.702	4096	12.75	17.31	90.05	0	0	0	0	0	-3	10.73	10.73	180.89	182.25	1	1	14.4	1.2	1.2	17.9	100	5.2
113.787	4099	12	16.64	90.05	0	0	0	0	0	-3	10.73	10.73	183.23	181.5	1	1	14.7	1.2	1.2	17.5	100	3.71
113.864	4193	11.25	16.93	90.05	0	0	0	0	0	-3	10.88	10.73	185.74	185.25	1	1	14.9	1.2	1.2	17	100	1.02
113.942	4189	8.25	16.9	90.05	0	0	0	0	0	-3	10.88	10.88	187.8	186.75	1	1	15.2	1.2	1.2	15.6	100	1.72
114.034	4245	7.5	17.03	91.4	0	0	0	0	0	-1.5	11.02	10.88	188.37	186.75	1	1	15.1	1.2	1.2	15.2	100	1.02
114.109	4324	9	17.38	91.4	0	0	0	0	0	-1.5	10.88	10.88	187.2	187.5	1	1	15	1.2	1.2	15.3	100	0.78
114.184	4333	8.25	17.68	91.4	0	0	0	0	0	-1.5	10.88	10.88	187.9	189	1	1	14.9	1.2	1.2	15.1	100	0.86

Time (sec)	Engine Speed (RPM)	Ignition Angle (Actual) 2 (°)	Injection Time (ms)	Intake-Air Temperature (° F)	Knock Sums Cyl. 1 (knock)	Knock Sums Cyl. 2 (knock)	Knock Sums Cyl. 3 (knock)	Knock Sums Cyl. 4 (knock)	Knock Sums Cyl. 5 (knock)	Knock Sums Cyl. 6 (knock)	Lambda Bank 1 (AFR)	Lambda Bank 2 (AFR)	Load (Relative) (%)	Load (rlp) (%)	Long Term Fuel Trim Bank 1 (%)	Long Term Fuel Trim Bank 2 (%)	Manifold Absolute Pressure (PSI)	Short Term Fuel Trim Bank 1 (%)	Short Term Fuel Trim Bank 2 (%)	Target Boost Pressure (PSI)	Throttle Angle (%)	Wastegate Duty Cycle (%)
114.271	4371	7.5	17.47	91.4	0	0	0	0	0	-1.5	10.73	10.88	188.13	186.75	1	1	14.9	1.2	1.2	14.9	100	0.74
114.352	4401	7.5	17.91	91.4	0	0	0	0	0	-1.5	10.73	10.73	188.53	189.75	1	1	14.9	1.2	1.2	14.8	100	0.7
114.439	4412	4.5	18.15	91.4	0	0	0	0	0	-1.5	10.73	10.73	190.76	191.25	1	1	15	1.2	1.2	12.9	100	0.47
114.524	4453	0.75	15.91	91.4	0	0	0	0	0	-1.5	10.73	10.73	192.05	167.25	1	1	15.3	1.2	1.2	10	93.73	0.47
114.607	4367	-3	13.79	91.4	0	0	0	0	0	-1.5	10.73	10.73	161.65	145.5	1	1	11.2	1.2	1.2	3.8	33.73	0.47
114.686	4412	-2.25	6.91	92.75	0	0	0	0	0	0	10.73	10.73	104.91	84.75	1	1	2.1	1.2	1.2	0.1	14.51	0
115.567	3796	26.25	4.62	92.75	0	0	0	0	0	0	21.46	19.7	88.69	85.5	1	1	0.7	1	1	13.8	100	9.49
115.651	3604	24.75	4.85	92.75	0	0	0	0	0	0	19.11	17.93	92.51	90.75	1	1	1.4	1	1	16.1	100	9.49
115.727	3655	23.25	5.13	92.75	0	0	0	0	0	0	18.23	17.64	98.25	96.75	1	1	2.1	1	1	18.4	100	9.49
115.813	3663	23.25	5.5	92.75	0	0	0	0	0	0	18.08	16.76	103.2	102	1	1	2.9	1.01	1.01	18.8	100	9.49
115.888	3714	21.75	7	92.75	0	0	0	0	0	0	17.79	17.05	109.9	108.75	1	1	4	1	1.08	18.7	100	9.49
115.972	3744	21	7.37	92.75	0	0	0	0	0	0	16.02	14.99	115.95	114	1	1	4.8	1	1.14	18.8	100	9.49
116.047	3785	21	8.37	92.75	0	0	0	0	0	0	14.85	13.23	123.42	122.25	1	1	6	1	1.21	18.7	100	9.49
116.127	3774	20.25	9.45	92.75	0	0	0	0	0	-1.5	14.11	12.2	132.38	130.5	1	1	7.4	1.03	1.21	18.8	100	9.22
116.218	3805	20.25	10.74	92.75	0	0	0	0	0	-1.5	13.67	11.61	142.55	139.5	1	1	9	1.1	1.2	18.9	100	7.85
116.294	3829	16.5	12.06	94.1	0	0	0	0	0	-1.5	12.79	11.61	152.06	150	1	1	10.4	1.15	1.19	19	100	4.92
116.37	3857	18.75	13.27	94.1	0	0	0	0	0	-1.5	12.35	11.61	164.84	161.25	1	1	12.3	1.17	1.19	19.1	100	2.54
116.449	3892	18	14.32	94.1	0	0	0	0	0	-1.5	12.35	11.91	173.48	171	1	1	13.6	1.2	1.2	19.1	100	1.95
116.54	3945	18	14.9	94.1	0	0	0	0	0	-1.5	11.91	11.76	177	176.25	1	1	14.1	1.2	1.2	19.3	100	5.12
116.618	3963	18.75	14.81	94.1	0	0	0	0	0	-1.5	11.47	11.32	176.37	176.25	1	1	14	1.19	1.19	19.4	100	5.31
116.7	3957	17.25	14.43	94.1	0	0	0	0	0	-1.5	11.32	11.32	176.81	174	1	1	14	1.18	1.17	19.4	100	5.12
116.776	3988	15.75	14.62	94.1	0	0	0	0	0	-1.5	11.61	11.47	178.34	177.75	1	1	14.2	1.17	1.16	19.4	100	4.88
116.853	4048	15.75	14.38	94.1	0	0	0	0	0	-1.5	11.61	11.61	180.8	179.25	1	1	14.5	1.17	1.15	19.5	100	4.84
116.941	4054	15.75	14.73	94.1	0	0	0	0	0	-1.5	12.05	12.05	182.46	181.5	1	1	14.7	1.17	1.15	19.5	100	4.84
117.015	4110	15.75	15.16	95.45	0	0	0	0	0	-1.5	11.91	12.05	184.55	183.75	1	1	15	1.17	1.16	19.4	100	4.26
117.1	4114	15.75	15.26	95.45	0	0	0	0	0	-1.5	11.76	11.91	185.48	183.75	1	1	15.1	1.18	1.17	19.3	100	5.47
117.175	4176	15.75	15.5	95.45	0	0	0	0	0	-1.5	11.91	11.76	186.38	186	1	1	15.2	1.18	1.17	19.3	100	5.62
117.259	4166	15.75	15.63	95.45	0	0	0	0	0	-1.5	11.61	11.61	187.34	186	1	1	15.3	1.19	1.18	18.9	100	5.12
117.342	4189	16.5	15.79	95.45	0	0	0	0	0	-1.5	11.61	11.76	189.42	188.25	1	1	15.5	1.18	1.18	18.4	100	4.8
117.419	4233	18	15.79	96.8	0	0	0	0	0	-1.5	11.47	11.76	190.71	189	1	1	15.6	1.18	1.18	15.5	100	4.73
117.503	4282	18	15.67	96.8	0	0	0	0	0	-1.5	11.47	11.47	191.27	191.25	1	1	15.6	1.18	1.18	11.9	100	0.47
117.581	4318	19.5	15.55	96.8	0	0	0	0	0	-1.5	11.47	11.47	188.44	189	1	1	15.1	1.17	1.17	10.6	100	0.47
117.665	4244	-3.75	13.22	96.8	0	0	0	0	0	-1.5	11.76	11.61	184.99	162.75	1	1	14.6	1.16	1.16	6.8	44.71	0.47
117.737	4244	-4.5	10.24	96.8	0	0	0	0	0	-1.5	11.32	11.17	133.62	117.75	1	1	6.9	1.15	1.16	0.1	24.71	0.47
142.953	3692	26.25	5.33	87.35	0	0	0	0	0	0	14.85	14.55	85.36	82.5	1	1	0.3	1.21	1.2	6.6	52.55	8.44
143.044	3696	26.25	5.74	87.35	0	0	0	0	0	0	14.26	14.11	88.73	87.75	1	1	0.8	1.2	1.2	8.4	52.16	4.84
143.121	3708	24	5.98	87.35	0	0	0	0	0	0	14.7	13.82	93.33	92.25	1	1	1.5	1.2	1.2	9.7	80.78	7.11
143.204	3744	23.25	6.4	87.35	0	0	0	0	0	0	14.7	14.55	99.05	97.5	1	1	2.3	1.2	1.2	12.5	100	9.49
143.28	3760	21.75	7.03	87.35	0	0	0	0	0	0	14.41	14.26	105.19	104.25	1	1	3.3	1.2	1.2	12.5	100	6.37
143.365	3778	21	7.89	87.35	0	0	0	0	0	0	14.11	13.82	113.02	111	1	1	4.5	1.2	1.19	12.3	100	5.43
143.447	3818	21	8.76	87.35	0	0	0	0	0	0	13.96	13.82	120.8	119.25	1	1	5.7	1.2	1.19	12.2	100	4.65
143.524	3834	21	9.47	87.35	0	0	0	0	0	-1.5	13.23	13.23	129.28	126.75	1	1	7	1.2	1.19	11.5	100	0.47
143.607	3890	21	10.42	87.35	0	0	0	0	0	-1.5	12.94	13.23	137.53	135.75	1	1	8.2	1.19	1.18	11.4	100	0.47
143.684	3911	21	11.38	87.35	0	0	0	0	0	-1.5	12.79	12.94	146.67	145.5	1	1	9.6	1.19	1.19	8.7	100	4.45
143.767	3954	20.25	11.42	87.35	0	0	0	0	0	-1.5	12.64	12.49	156.07	141	1	1	11	1.2	1.19	2.8	90.59	0.47
143.845	3909	21.75	8.98	88.7	0	0	0	0	0	-0.75	12.49	12.35	129.73	114	1	1	6.9	1.2	1.19	0.1	22.75	0
167.682	3351	27.75	5.18	84.65	0	0	0	0	0	0	17.2	17.49	83.2	80.25	1	1	0.1	1.22	1.22	7.2	49.02	9.49
167.76	3372	26.25	5.57	84.65	0	0	0	0	0	0	15.43	15.29	85.5	84.75	1	1	0.5	1.21	1.21	7.3	52.94	6.33
167.844	3349	25.5	5.68	84.65	0	0	0	0	0	0	14.7	14.11	88.64	87	1	1	1	1.2	1.2	7.4	53.73	4.45
167.909	3356	24.75	6.03	84.65	0	0	0	0	0	0	14.55	13.96	93.05	92.25	1	1	1.7	1.2	1.2	9.1	57.25	7.5
167.994	3387	23.25	6.36	84.65	0	0	0	0	0	0	14.41	14.26	97.95	96	1	1	2.4	1.2	1.19	9	99.61	5.47
168.079	3412	23.25	6.67	84.65	0	0	0	0	0	0	14.11	13.52	102.56	101.25	1	1	3.1	1.19	1.18	9	100	4.22
168.165	3455	23.25	7.19	84.65	0	0	0	0	0	0	13.96	13.96	108.45	107.25	1	1	4	1.19	1.17	10.4	100	6.09
168.249	3462	21.75	7.77	84.65	0	0	0	0	0	0	13.82	13.96	114.14	113.25	1	1	4.8	1.19	1.16	11.2	100	4.06
168.325	3500	21	8.44	84.65	0	0	0	0	0	0	13.82	13.82	120.54	119.25	1	1	5.8	1.18	1.16	13.9	100	8.55
168.403	3541	18	9.1	84.65	0	0	0	0	0	-0.75	13.38	13.38	126.84	126	1	1	6.7	1.18	1.15	14	100	6.25
168.494	3556	12	9.4	86	0	0	0	0	0	-0.75	13.08	13.23	133.55	132	1	1	7.8	1.15	1.14	14	100	5.04
168.571	3566	6.75	10.25	86	0	0	0	0	0	-0.75	13.38	13.23	142.43	139.5	1	1	9.1	1.15	1.13	14.2	100	2.66
168.655	3616	7.5	11.54	86	0	0	0	0	0	-0.75	13.23	13.08	150.14	148.5	1	1	10.3	1.17	1.14	14.2	100	1.48
168.732	3640	4.5	13.12	86	0	0	0	0	0	-0.75	12.64	13.08	157.2	153.75	1	1	11.4	1.18	1.16	14.5	100	5.39
168.816	3684	5.25	14.72	86	0	0	0	0	0	-0.75	11.91	12.05	162.42	160.5	1	1	12.1	1.21	1.2	13.8	100	3.59
168.894	3673	4.5	15.18	86	0	0	0	0	0	-0.75	11.32	11.17	168.02	166.5	1	1	12.9	1.2	1.2	13.6	100	4.3
168.979	3718	4.5	15.94	86	0	0	0	0	0	-0.75	10.88	11.02	173.23	171.75	1	1	13.7	1.2	1.2	13.5	100	3.71
169.047	3744	4.5	16.45	87.35	0	0	0	0	0	-0.75	10.88	10.73	178.05	175.5	1	1	14.3	1.2	1.2	13.6	100	3.36
169.134	3868	4.5	16.86	87.35	0	0	0	0	0	-0.75	10.73	10.73	179.67	178.5	1	1	14.5	1.2	1.2	13.3	100	2.11

Time (sec)	Engine Speed (RPM)	Ignition Angle (Actual) 2 (°)	Injection Time (ms)	Intake-Air Temperature (° F)	Knock Sums Cyl. 1 (knock)	Knock Sums Cyl. 2 (knock)	Knock Sums Cyl. 3 (knock)	Knock Sums Cyl. 4 (knock)	Knock Sums Cyl. 5 (knock)	Knock Sums Cyl. 6 (knock)	Lambda Bank 1 (AFR)	Lambda Bank 2 (AFR)	Load (Relative) (%)	Load (rlp) (%)	Long Term Fuel Trim Bank 1 (%)	Long Term Fuel Trim Bank 2 (%)	Manifold Absolute Pressure (PSI)	Short Term Fuel Trim Bank 1 (%)	Short Term Fuel Trim Bank 2 (%)	Target Boost Pressure (PSI)	Throttle Angle (%)	Wastegate Duty Cycle (%)
169.219	3756	1.5	17.05	87.35	0	0	0	0	0	-0.75	10.73	10.73	180.12	178.5	1	1	14.7	1.2	1.2	12	100	1.21
169.295	3884	2.25	17.21	87.35	0	0	0	0	0	-0.75	10.73	10.73	181.03	180	1	1	14.7	1.2	1.2	11.4	100	0.47
169.377	3863	0.75	17.07	87.35	0	0	0	0	0	-0.75	10.73	10.73	181.38	178.5	1	1	14.7	1.2	1.2	10.9	100	0.47
169.452	3938	0	17.39	87.35	0	0	0	0	0	-0.75	10.73	10.73	183.05	182.25	1	1	14.8	1.2	1.2	9.8	100	0.47
169.54	3926	-2.25	15.3	87.35	0	0	0	0	0	-0.75	10.73	10.73	181.5	160.5	1	1	14.7	1.2	1.2	7.7	41.57	0.47
169.623	3862	-4.5	12.51	87.35	0	0	0	0	0	-0.75	10.73	10.73	140.74	132.75	1	1	8.5	1.2	1.2	6.4	27.45	0.47
169.7	3996	-0.75	10.7	87.35	0	0	0	0	0	-0.75	10.73	10.73	118.34	114.75	1	1	4.9	1.2	1.2	4.7	25.1	0.47
169.783	3913	-1.5	9	87.35	0	0	0	0	0	0	10.73	10.73	107.3	99	1	1	3.2	1.2	1.2	0.1	21.57	0
313.753	3004	8.25	4.24	81.95	0	0	0	0	0	0	18.67	16.02	78.52	77.25	1.02	1.03	0.1	1	1.19	1	45.1	0.7
313.829	2932	7.5	4.28	81.95	0	0	0	0	0	0	17.79	14.85	80.91	79.5	1.01	1.01	0.5	1	1.2	1.9	45.1	0.47
313.912	2897	10.5	4.43	81.95	0	0	0	0	0	0	18.82	14.99	83.44	81.75	1.01	1.01	1	1	1.2	4.3	45.1	0.62
313.988	3018	16.5	4.65	81.95	0	0	0	0	0	0	18.52	14.26	87.59	85.5	1	1	1.4	1	1.2	5.4	44.71	4.96
314.074	2796	15.75	4.85	81.95	0	0	0	0	0	0	18.52	14.41	89.86	89.25	1	1	2	1	1.2	6.4	45.88	2.62
314.157	2984	12.75	4.98	81.95	0	0	0	0	0	0	17.35	13.96	92.58	91.5	1	1	2.3	1	1.2	5.5	43.53	0.47
314.232	2854	11.25	5.08	81.95	0	0	0	0	0	0	17.05	13.67	95.09	93.75	1	1	2.9	1	1.18	6.1	45.1	4.73
314.316	2997	10.5	5.43	81.95	0	0	0	0	0	0	16.76	13.38	97.69	96.75	1	1	3.2	1.03	1.17	5.7	44.31	3.2
314.398	2933	9	6.03	81.95	0	0	0	0	0	0	16.46	13.52	100.78	99.75	1	1	3.7	1.08	1.15	6	44.71	1.29
314.476	2969	9	6.78	81.95	0	0	0	0	0	0	16.17	13.52	103.73	102.75	1	1	4.2	1.14	1.14	7.3	44.31	5.2
314.552	3009	9	7.42	81.95	0	0	0	0	0	0	14.85	13.67	106.95	105.75	1	1	4.7	1.18	1.13	7.8	52.55	4.73
314.629	2963	7.5	7.78	81.95	0	0	0	0	0	0	14.85	13.82	110.11	109.5	1	1	5.3	1.2	1.14	7.5	69.02	3.52
314.72	3034	5.25	8.31	81.95	0	0	0	0	0	0	14.11	13.82	113.53	112.5	1	1	5.8	1.21	1.15	7.5	69.8	0.74
314.798	3005	3	9.1	83.3	0	0	0	0	0	0	13.82	13.96	118.73	117.75	1	1	6.6	1.2	1.16	7.6	61.57	2.7
314.874	3112	11.25	9.61	83.3	0	0	0	0	0	0	13.08	13.23	122.74	122.25	1	1	7.2	1.2	1.16	13.3	78.43	9.49
314.96	3160	13.5	9.96	83.3	0	0	0	0	0	-0.75	12.49	12.64	128.46	127.5	1	1	7.8	1.19	1.16	15	100	6.05
315.043	3253	18.75	10.15	83.3	0	0	0	0	0	-0.75	12.35	12.64	133.1	132	1	1	8.5	1.17	1.15	18.2	100	9.49
315.119	3385	18	10.23	83.3	0	0	0	0	0	-0.75	12.35	12.79	138.84	138	1	1	9.1	1.16	1.15	18.3	100	5.9
315.198	3418	13.5	10.45	83.3	0	0	0	0	0	-0.75	12.64	12.79	145.1	144	1	1	10.1	1.14	1.14	18.3	100	5.43
315.287	3578	9.75	11.32	83.3	0	0	0	0	0	-0.75	13.23	13.08	153.66	152.25	1	1	11.1	1.14	1.13	18.1	100	4.22
315.365	3674	5.25	13	83.3	0	0	0	0	0	-0.75	12.94	13.08	163.08	161.25	1	1	12.4	1.15	1.14	14.5	100	0.47
315.434	3680	0	14.02	83.3	0	0	0	0	0	-0.75	12.94	12.64	173.11	169.5	1	1	14	1.19	1.18	10.4	100	0.47
315.519	3887	-1.5	14.42	84.65	0	0	0	0	0	-0.75	11.76	11.76	177.75	159	1	1	14.5	1.21	1.2	9.3	54.51	0.47
315.603	3848	-0.75	13.98	84.65	0	0	0	0	0	-0.75	10.88	10.88	149.98	144.75	1	1	10.3	1.2	1.2	8.7	31.37	0.47
315.69	3886	2.25	12.9	84.65	0	0	0	0	0	-0.75	10.73	10.73	137.41	135.75	1	1	8.2	1.2	1.2	8.6	29.8	0.47
315.776	4035	3.75	12.86	84.65	0	0	0	0	0	-0.75	10.73	10.73	134.18	135	1	1	7.4	1.2	1.2	8.7	31.37	0.47
315.851	3997	0.75	13.03	84.65	0	0	0	0	0	-0.75	10.73	10.73	138.87	137.25	1	1	8.2	1.2	1.2	7.1	33.73	0.47
315.929	3896	-5.25	11.74	84.65	0	0	0	0	0	-0.75	10.73	10.73	131.58	124.5	1	1	7	1.2	1.2	1.9	28.24	0.47
316.008	3904	0	7.46	84.65	0	0	0	0	0	0	11.02	10.73	98.3	87	1	1	1.9	1.2	1.2	0.1	18.43	0
317.474	2706	10.5	5.12	84.65	0	0	0	0	0	0	16.32	16.9	79.05	78	1.05	1.06	0.3	1.21	1.14	2.2	42.75	3.87
317.55	2697	8.25	5.29	84.65	0	0	0	0	0	0	15.29	15.29	80.95	80.25	1.05	1.06	0.6	1.21	1.16	2.1	42.75	0.47
317.636	2694	7.5	6.14	84.65	0	0	0	0	0	0	14.85	14.7	83.34	82.5	1.03	1.04	0.9	1.21	1.16	2.1	41.57	0.47
317.717	2720	6	5.54	84.65	0	0	0	0	0	0	14.41	14.85	86.02	84	1.02	1.03	1.4	1.2	1.16	1.8	41.18	0.47
317.794	2736	6	5.53	84.65	0	0	0	0	0	0	14.26	13.96	86.51	84.75	1.01	1.02	1.5	1.2	1.16	1.7	35.69	0.47
317.876	2741	6	5.41	84.65	0	0	0	0	0	0	13.82	13.67	83.93	82.5	1.02	1.03	1	1.18	1.14	1.6	29.8	0.47
317.964	2778	6.75	5.18	84.65	0	0	0	0	0	0	12.79	12.79	82.64	81.75	1.03	1.03	0.8	1.15	1.11	1.4	28.24	0.47
318.046	2780	6.75	5.03	84.65	0	0	0	0	0	0	13.23	12.64	81.42	81	1.03	1.04	0.6	1.12	1.07	1.3	26.67	0.47
318.123	2808	6.75	4.86	84.65	0	0	0	0	0	0	13.23	13.08	81.47	81	1.03	1.03	0.6	1.11	1.05	1.2	25.88	0.47
318.209	2830	6	4.78	84.65	0	0	0	0	0	0	13.82	13.23	81.68	81	1.03	1.03	0.6	1.1	1.03	1.2	25.88	0.47
318.288	2810	6	4.72	84.65	0	0	0	0	0	0	13.82	13.96	81.07	80.25	1.03	1.03	0.5	1.08	1.02	1.2	25.1	0.47
318.376	2846	6	4.62	84.65	0	0	0	0	0	0	14.11	13.96	80.62	79.5	1.03	1.03	0.4	1.08	1.02	0.6	24.71	0.47
365.061	2174	24.75	5.2	84.65	0	0	0	0	0	0	14.55	14.26	77.11	75.75	1.08	1.09	0.2	1.18	1.12	7.4	80.78	6.95
365.146	2222	22.5	5.25	84.65	0	0	0	0	0	-1.5	14.11	13.82	78.59	77.25	1.08	1.09	0.3	1.17	1.1	7.7	50.59	6.68
365.229	2279	24	5.27	84.65	0	0	0	0	0	-0.75	13.52	13.82	79.66	78.75	1.08	1.09	0.5	1.16	1.09	7.4	52.94	6.41
365.306	2333	22.5	5.26	84.65	0	0	0	0	0	-0.75	13.38	13.82	81.28	80.25	1.08	1.09	0.7	1.13	1.08	7.3	42.75	6.29
365.382	2376	23.25	5.29	84.65	0	0	0	0	0	0	13.38	13.67	82.41	81.75	1.08	1.09	0.9	1.11	1.06	7	42.35	5.98
365.466	2766	16.5	4.91	84.65	0	0	0	0	0	0	13.52	13.82	83.74	83.25	1.04	1.05	0.9	1.1	1.05	4.6	39.22	4.61
365.547	2487	9.75	5.17	84.65	0	0	0	0	0	0	13.67	13.67	86.84	87.75	1.03	1.04	1.5	1.09	1.05	3.7	42.75	3.98
365.624	2504	9	5.18	84.65	0	0	0	0	0	0	14.11	14.11	87.45	87	1.06	1.08	1.7	1.08	1.03	4	40	1.72
365.702	2721	9.75	5.11	84.65	0	0	0	0	0	0	14.41	14.41	88.97	88.5	1.01	1.01	1.8	1.08	1.03	4.3	40	5.9
365.786	2550	10.5	5.42	84.65	0	0	0	0	0	0	14.55	14.7	91.59	90.75	1.02	1.03	2.3	1.09	1.04	5	43.14	4.65
365.867	2773	8.25	5.49	84.65	0	0	0	0	0	0	14.7	14.85	92.67	92.25	1	1	2.4	1.09	1.05	4	40.78	0.47
365.955	2680	6.75	5.98	84.65	0	0	0	0	0	0	14.99	14.85	97.22	96	1	1	3.1	1.11	1.07	4.3	43.53	1.95
366.039	2880	4.5	5.98	84.65	0	0	0	0	0	0	14.26	13.96	98.16	95.25	1	1	3.2	1.11	1.07	3.2	37.65	0.55
366.121	2886	6	5.85	84.65	0	0	0	0	0	0	13.82	14.26	93.91	93	1	1	2.5	1.11	1.07	3.1	29.41	0.47
366.199	2952	6.75	5.78	84.65	0	0	0	0	0	0	14.11	13.67	92.86	92.25	1	1	2.3	1.12	1.08	2.9	28.63	0.47
366.274	2993	6.75	5.61	86	0	0	0	0	0	0	13.67	13.52	90.33	89.25	1	1	1.8	1.12	1.08	2.6	26.67	0.47

Time (sec)	Engine Speed (RPM)	Ignition Angle (Actual) 2 (°)	Injection Time (ms)	Intake-Air Temperature (° F)	Knock Sums Cyl. 1 (knock)	Knock Sums Cyl. 2 (knock)	Knock Sums Cyl. 3 (knock)	Knock Sums Cyl. 4 (knock)	Knock Sums Cyl. 5 (knock)	Knock Sums Cyl. 6 (knock)	Lambda Bank 1 (AFR)	Lambda Bank 2 (AFR)	Load (Relative) (%)	Load (rlp) (%)	Long Term Fuel Trim Bank 1 (%)	Long Term Fuel Trim Bank 2 (%)	Manifold Absolute Pressure (PSI)	Short Term Fuel Trim Bank 1 (%)	Short Term Fuel Trim Bank 2 (%)	Target Boost Pressure (PSI)	Throttle Angle (%)	Wastegate Duty Cycle (%)
366.361	3022	6	5.53	86	0	0	0	0	0	0	13.82	13.52	89.44	88.5	1	1	1.7	1.12	1.07	2.5	26.67	0.47
366.434	3142	6.75	5.49	86	0	0	0	0	0	0	13.96	13.67	88.99	87.75	1	1	1.4	1.13	1.08	1.9	25.49	0.47
366.52	3109	7.5	5.52	86	0	0	0	0	0	0	13.67	13.96	87.49	87	1	1	1.2	1.13	1.08	2	25.88	0.47
366.595	3174	6.75	5.43	86	0	0	0	0	0	0	13.52	13.82	87.54	86.25	1	1	1.1	1.13	1.08	1.7	25.49	0.47
366.689	3224	7.5	5.33	86	0	0	0	0	0	0	13.52	13.67	86.34	85.5	1	1	0.8	1.12	1.09	1.6	25.1	0.47
366.774	3229	5.25	4.83	86	0	0	0	0	0	0	13.52	13.67	83.48	79.5	1	1	0.3	1.12	1.09	0.1	22.35	0.47
367.904	2294	12.75	4.93	86	0	0	0	0	0	-1.5	17.49	16.61	77.7	76.5	1.08	1.09	0.2	1.14	1.07	3.6	38.43	3.75
367.988	2296	11.25	5.35	86	0	0	0	0	0	-1.5	16.17	15.88	78.94	78	1.08	1.09	0.4	1.17	1.1	3.6	38.04	3.36
368.063	2322	9.75	5.34	86	0	0	0	0	0	-1.5	14.41	14.7	80.16	78.75	1.08	1.09	0.6	1.16	1.09	3.5	38.04	2.03
368.151	2336	9.75	5.27	86	0	0	0	0	0	-1.5	13.96	14.41	81.33	80.25	1.08	1.09	0.8	1.14	1.09	3.3	38.04	3.63
368.231	2357	8.25	5.34	86	0	0	0	0	0	-1.5	13.82	13.96	82.78	82.5	1.08	1.09	1	1.12	1.08	3.2	38.04	1.8
368.317	2388	8.25	5.38	86	0	0	0	0	0	-1.5	13.82	13.96	84.4	82.5	1.08	1.09	1.3	1.12	1.07	3.1	38.82	3.24
368.396	2420	7.5	5.36	86	0	0	0	0	0	0	13.67	13.96	85.88	85.5	1.07	1.08	1.5	1.1	1.07	3	38.82	0.98
368.485	2418	6	5.35	86	0	0	0	0	0	0	13.82	13.82	87.61	87	1.06	1.08	1.8	1.08	1.05	3	39.22	1.88
368.561	2447	6	5.36	86	0	0	0	0	0	0	13.96	14.11	89.6	88.5	1.05	1.06	2.1	1.08	1.04	3	39.61	0.86
368.644	2482	4.5	5.29	86	0	0	0	0	0	0	13.67	13.96	91.03	89.25	1.03	1.04	2.3	1.07	1.04	2.8	38.82	0.47
368.737	2472	5.25	5.23	86	0	0	0	0	0	0	13.82	13.96	89.39	88.5	1.04	1.05	2	1.05	1.02	2.6	32.55	0.47
368.815	2523	5.25	5.07	86	0	0	0	0	0	0	13.52	13.38	87.63	87	1.04	1.05	1.7	1.04	1.01	2.6	29.41	0.47
368.898	2511	4.5	4.87	86	0	0	0	0	0	0	13.82	13.52	86.51	85.5	1.04	1.05	1.5	1.03	1	2	26.67	0.47
368.975	2520	6.75	4.75	86	0	0	0	0	0	0	13.96	13.96	83.58	83.25	1.06	1.07	1.1	1.03	0.99	2	25.88	0.47
369.057	2558	6	4.75	86	0	0	0	0	0	0	14.41	14.41	83.27	82.5	1.05	1.06	1	1.04	0.99	1.5	25.49	0.47
369.134	2574	7.5	4.26	86	0	0	0	0	0	0	13.96	14.26	80.09	75.75	1.07	1.08	0.4	1.04	1	0.1	21.57	0.47
431.764	3439	15	4.61	86	0	0	0	0	0	0	15.29	14.99	82.99	80.25	1	1	0.1	1.08	1.06	3.8	51.37	6.56
431.849	3586	27	5.12	86	0	0	0	0	0	0	17.05	16.61	86.88	84	1	1	0.6	1.14	1.1	8.7	51.37	9.49
431.931	3484	25.5	5.54	86	0	0	0	0	0	0	15.29	15.29	90.05	87.75	1	1	1.2	1.17	1.14	10.4	89.02	6.91
432.007	3608	24	6.1	86	0	0	0	0	0	0	14.99	14.99	94.66	93.75	1	1	1.7	1.2	1.17	17.4	100	9.49
432.082	3587	24	6.51	86	0	0	0	0	0	0	14.41	14.7	99.7	98.25	1	1	2.6	1.2	1.18	18.6	100	9.49
432.161	3643	22.5	7.1	86	0	0	0	0	0	0	14.11	13.96	105.98	105	1	1	3.5	1.2	1.18	18.7	100	9.49
432.251	3687	21.75	8.79	86	0	0	0	0	0	0	13.96	13.82	112.78	111.75	1	1	4.5	1.2	1.17	18.7	100	9.49
432.328	3744	21	9.42	86	0	0	0	0	0	0	13.08	13.23	121.2	119.25	1	1	5.7	1.2	1.19	18.7	100	9.49
432.411	3787	21	10.56	87.35	0	0	0	0	0	-0.75	12.2	12.2	128.79	126.75	1	1	6.9	1.2	1.21	18.8	100	9.49
432.488	3868	21	11.47	87.35	0	0	0	0	0	-0.75	11.76	11.91	137.84	135.75	1	1	8.1	1.19	1.2	18.9	100	8.01
432.564	3927	19.5	12.23	87.35	0	0	0	0	0	-0.75	11.61	11.47	148.31	145.5	1	1	9.7	1.19	1.19	18.9	100	4.84
432.65	3987	20.25	13.19	87.35	0	0	0	0	0	-0.75	11.76	11.76	160.76	157.5	1	1	11.6	1.18	1.19	19	100	3.87
432.734	4093	20.25	14.28	87.35	0	0	0	0	0	-0.75	11.76	11.76	172.76	171	1	1	13.3	1.19	1.19	19.5	100	1.91
432.811	4171	19.5	14.95	87.35	0	0	0	0	0	-0.75	11.91	11.76	178.64	177.75	1	1	14	1.2	1.19	19.3	100	5.04
432.897	4182	18	15.18	87.35	0	0	0	0	0	-1.5	11.61	11.76	180.49	180	1	1	14.2	1.2	1.19	19.2	100	4.61
432.973	4324	20.25	15.13	87.35	0	0	0	0	0	-1.5	11.47	11.47	182.91	180.75	1	1	14.3	1.19	1.18	18.8	100	3.98
433.056	4313	20.25	15.19	87.35	0	0	0	0	0	-1.5	11.47	11.61	184.62	183	1	1	14.5	1.18	1.18	18.7	100	5.2
433.139	4476	20.25	15.47	87.35	0	0	0	0	0	-1.5	11.47	11.61	188.18	186.75	1	1	14.7	1.17	1.18	18.7	100	5.55
433.216	4496	19.5	15.47	88.7	0	0	0	0	0	-1.5	11.61	11.61	190.66	189	1	1	15	1.16	1.17	19.9	100	4.92
433.3	4632	20.25	15.56	88.7	0	0	0	0	0	-0.75	11.47	11.61	193.92	191.25	1	1	15.3	1.16	1.16	19.6	100	4.73
433.378	4713	21	16.37	88.7	0	0	0	0	0	-0.75	11.61	11.61	198.89	191.25	1	1	15.9	1.16	1.16	18.9	100	3.83
433.455	4836	20.25	16.28	90.05	0	0	0	0	0	-0.75	11.47	11.76	201.33	191.25	1	1	16.1	1.15	1.16	18.8	100	2.42
433.541	4835	21	15.99	90.05	0	0	0	0	0	-0.75	11.47	11.61	202.1	191.25	1	1	16.1	1.13	1.15	18.2	100	3.24
433.622	4940	21	15.69	90.05	0	0	0	0	0	-0.75	11.47	11.47	200.53	191.25	1	1	15.7	1.12	1.14	17.8	100	2.54
433.701	5056	20.25	15.13	90.05	0	0	0	0	0	-0.75	11.32	11.47	197.67	191.25	1	1	15.3	1.1	1.12	17.4	100	2.19
433.769	5066	18	14.78	90.05	0	0	0	0	0	0	11.47	11.61	196.08	191.25	1	1	15.2	1.08	1.11	17.1	100	1.88
433.856	5130	1.5	15.31	90.05	0	0	0	0	0	0	11.61	11.47	195.02	191.25	1	1	14.9	1.08	1.1	0.1	79.61	0.47
434.347	4209	23.25	6.18	91.4	0	0	0	0	0	0	16.02	14.85	98.32	98.25	1	1	1.6	1	1	18.6	100	9.49
434.437	4120	21	6.06	91.4	0	0	0	0	0	0	15.88	15.73	107.65	105.75	1	1	3.2	1	1	18.6	100	9.49
434.514	4110	20.25	7.69	91.4	0	0	0	0	0	0	16.46	16.17	115.88	114.75	1	1	4.4	1.02	1.02	18.7	100	9.49
434.592	4157	22.5	9.76	91.4	0	0	0	0	0	0	14.55	14.55	126.73	124.5	1	1	6	1.12	1	18.7	100	8.12
434.669	4209	22.5	11.19	91.4	0	0	0	0	0	-1.5	12.79	13.82	139.48	137.25	1	1	7.7	1.18	1	18.5	100	7.66
434.759	4258	21.75	12.38	91.4	0	0	0	0	0	-1.5	12.05	13.82	154.45	152.25	1	1	9.8	1.19	1.05	18.1	100	4.53
434.837	4270	20.25	14.02	91.4	0	0	0	0	0	-0.75	12.2	13.52	170.37	168	1	1	12.4	1.19	1.12	18.4	100	0.47
434.914	4375	19.5	15.1	91.4	0	0	0	0	0	-0.75	12.2	13.08	180.63	178.5	1	1	13.8	1.21	1.17	18.4	100	0.47
434.998	4367	18.75	15.66	92.75	0	0	0	0	0	-0.75	11.61	12.35	183.91	185.25	1	1	14.3	1.2	1.2	18.9	100	5.27
435.084	4419	19.5	15.39	92.75	0	0	0	0	0	-0.75	11.32	11.61	185.93	184.5	1	1	14.4	1.18	1.19	19	100	6.21
435.148	4510	20.25	15.35	92.75	0	0	0	0	0	-0.75	11.32	11.32	187.57	186.75	1	1	14.6	1.17	1.18	19.2	100	4.8
435.228	4549	21	15.32	92.75	0	0	0	0	0	0	11.47	11.61	190.73	188.25	1	1	15	1.16	1.17	19.8	100	6.21
435.312	4583	20.25	15.8	94.1	0	0	0	0	0	0	11.61	11.61	193.83	191.25	1	1	15.4	1.16	1.17	19.7	100	4.92
435.39	4656	21	16	94.1	0	0	0	0	0	0	11.91	11.61	196.41	191.25	1	1	15.7	1.16	1.16	19.5	100	4.8
435.476	4657	21	16.11	94.1	0	0	0	0	0	0	11.61	11.47	199.2	191.25	1	1	16	1.15	1.15	19.1	100	3.98
435.561	4690	21	16.01	94.1	0	0	0	0	0	0	11.47	11.61	200.27	191.25	1	1	16.1	1.14	1.14	18.9	100	4.8

Time (sec)	Engine Speed (RPM)	Ignition Angle (Actual) 2 (°)	Injection Time (ms)	Intake-Air Temperature (° F)	Knock Sums Cyl. 1 (knock)	Knock Sums Cyl. 2 (knock)	Knock Sums Cyl. 3 (knock)	Knock Sums Cyl. 4 (knock)	Knock Sums Cyl. 5 (knock)	Knock Sums Cyl. 6 (knock)	Lambda Bank 1 (AFR)	Lambda Bank 2 (AFR)	Load (Relative) (%)	Load (rlp) (%)	Long Term Fuel Trim Bank 1 (%)	Long Term Fuel Trim Bank 2 (%)	Manifold Absolute Pressure (PSI)	Short Term Fuel Trim Bank 1 (%)	Short Term Fuel Trim Bank 2 (%)	Target Boost Pressure (PSI)	Throttle Angle (%)	Wastegate Duty Cycle (%)
435.636	4786	21	15.85	94.1	0	0	0	0	0	0	11.32	11.47	200.51	191.25	1	1	15.9	1.12	1.13	18.9	100	4.02
435.715	4885	21	15.53	95.45	0	0	0	0	0	0	11.32	11.61	199.97	191.25	1	1	15.7	1.11	1.13	18.4	100	4.1
435.804	4878	21	15.29	95.45	0	0	0	0	0	0	11.47	11.61	199.31	191.25	1	1	15.6	1.1	1.13	18	100	3.28
435.88	4956	21	15.17	95.45	0	0	0	0	0	0	11.61	11.47	198.8	191.25	1	1	15.4	1.09	1.11	17.9	100	3.75
435.958	5008	21	14.83	95.45	0	0	0	0	0	0	11.47	11.47	196.66	191.25	1	1	15.1	1.08	1.1	17.7	100	4.1
436.042	4955	21	14.59	96.8	0	0	0	0	0	0	11.47	11.47	195.89	191.25	1	1	15	1.07	1.09	17.5	100	3.44
436.118	5048	20.25	14.62	96.8	0	0	0	0	0	0	11.76	11.76	194.27	191.25	1	1	14.9	1.07	1.09	17.6	100	4.34
436.194	5062	19.5	13.98	96.8	0	0	0	0	0	0	11.47	11.61	192.26	191.25	1	1	14.9	1.06	1.08	17.3	100	2.97
436.277	5071	18.75	14.66	96.8	0	0	0	0	0	0	11.91	11.91	195.16	191.25	1	1	14.9	1.07	1.09	17.1	100	2.23
436.363	5117	18	14.3	96.8	0	0	0	0	0	0	11.32	11.47	193.66	191.25	1	1	15	1.05	1.08	17.6	100	3.01
436.446	5118	17.25	14.23	98.15	0	0	0	0	0	0	11.61	11.61	195.96	191.25	1	1	15.2	1.04	1.08	17.2	100	3.05
436.527	5128	8.25	14.01	98.15	0	0	0	0	0	0	11.91	11.91	193.69	191.25	1	1	15.2	1.04	1.08	14.5	100	3.24
436.611	5250	1.5	15.29	98.15	0	0	0	0	0	0	12.05	12.05	194.79	191.25	1	1	15.2	1.06	1.08	0.1	76.08	0
437.42	4330	23.25	5.27	99.5	0	0	0	0	0	0	18.08	17.49	95.04	93	1	1	1	1	1	8.6	100	4.57
437.496	4300	21.75	5.85	99.5	0	0	0	0	0	0	17.05	16.9	103.24	101.25	1	1	2.1	1	1	9.3	100	5.35
437.581	4297	20.25	6.56	99.5	0	0	0	0	0	0	16.61	16.46	110.95	109.5	1	1	3.4	1.06	1.06	11.4	100	7.73
437.663	4350	21	8.06	99.5	0	0	0	0	0	0	15.29	15.29	120.73	117.75	1	1	4.8	1.14	1.13	11.9	100	4.88
437.757	4344	9	10.36	99.5	0	0	0	0	0	-0.75	13.67	13.96	134.79	133.5	1	1	6.9	1.18	1.18	10.9	100	0.47
437.834	4358	2.25	12.33	99.5	0	0	0	0	0	-0.75	12.94	12.64	146.09	143.25	1	1	8.6	1.19	1.2	9.8	100	4.65
437.912	4365	0.75	15.96	99.5	0	0	0	0	0	-0.75	12.2	12.2	168.42	166.5	1	1	12	1.21	1.21	9.9	100	3.01
437.988	4391	0.75	16.83	99.5	0	0	0	0	0	-0.75	11.02	11.02	181.31	176.25	1	1	13.8	1.2	1.2	9.5	100	0.47
438.079	4388	0	15.19	99.5	0	0	0	0	0	-0.75	10.88	10.73	185.27	156.75	1	1	14.5	1.2	1.2	8.9	76.47	0.47
438.158	4316	-3.75	13.44	100.85	0	0	0	0	0	-0.75	10.73	10.73	150.63	140.25	1	1	9.4	1.2	1.2	6.5	31.37	0.47
438.236	4382	1.5	11.45	100.85	0	0	0	0	0	0	10.73	10.73	121.76	120	1	1	4.9	1.2	1.2	5.8	27.45	0.47
438.312	4388	2.25	10.94	100.85	0	0	0	0	0	0	10.73	10.73	115.76	115.5	1	1	4	1.2	1.2	4.9	27.84	0.47
438.399	4439	2.25	9.55	100.85	0	0	0	0	0	0	10.73	10.73	108.66	102	1	1	2.9	1.2	1.2	0.1	25.49	0.47