



DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:26	-3	0.000000	-3.906250	40	2586	0	25	-3	9.803922	1.275000	0.000000
2012/01/14 8:27	-3	0.000000	-3.906250	43	2546	0	25	-3	9.803922	1.275000	0.000000
2012/01/14 8:27	-3	0.000000	-3.906250	43	2543	0	25	-3	9.803922	1.275000	0.000000
2012/01/14 8:27	-2	0.000000	-3.906250	42	2526	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	-2	0.000000	-3.906250	40	2543	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	-2	0.000000	-3.906250	43	2503	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	-1	0.000000	-3.906250	40	2510	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	-1	0.000000	-3.906250	40	2510	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	0	0.000000	-3.906250	40	2516	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	0	0.000000	-3.906250	45	2510	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	1	0.000000	-3.906250	42	2523	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	1	0.000000	-3.906250	40	2523	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	2	0.000000	-3.906250	42	2520	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	2	0.000000	-3.906250	40	2494	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	3	0.000000	-3.906250	40	2472	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	3	0.000000	-3.906250	42	2469	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	4	0.000000	-3.906250	40	2444	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	4	0.000000	-3.906250	43	2414	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	4	0.000000	-3.906250	41	2399	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	5	0.000000	-3.906250	43	2367	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	5	0.000000	-3.906250	39	2370	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	6	0.000000	-3.906250	40	2305	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	7	0.000000	-3.906250	42	2339	0	25	-2	9.803922	1.275000	0.000000
2012/01/14 8:27	7	0.000000	-3.906250	42	2284	0	25	-2	9.803922	1.110000	0.000000
2012/01/14 8:27	7	0.000000	-3.906250	42	2286	0	25	-2	9.803922	1.015000	0.000000
2012/01/14 8:27	8	0.000000	-3.906250	41	2250	0	25	-2	9.803922	0.975000	0.000000
2012/01/14 8:27	8	0.000000	-3.906250	40	2265	0	25	-2	9.803922	0.975000	0.000000
2012/01/14 8:27	9	0.000000	-3.906250	40	2219	0	25	-2	9.803922	0.995000	0.000000
2012/01/14 8:27	9	0.000000	-3.906250	38	2184	0	25	-2	9.803922	0.995000	0.000000
2012/01/14 8:27	10	0.000000	-3.906250	41	2189	0	25	-2	9.803922	0.995000	0.000000
2012/01/14 8:27	10	0.000000	-3.906250	42	2160	0	25	-2	9.803922	0.995000	0.000000
2012/01/14 8:28	11	0.000000	-3.906250	42	2134	0	25	-2	9.803922	0.975000	0.000000
2012/01/14 8:28	11	0.000000	-3.906250	41	2109	0	25	-2	9.803922	0.975000	0.000000
2012/01/14 8:28	12	0.000000	-3.906250	37	2097	0	25	-1	9.803922	0.975000	0.000000
2012/01/14 8:28	12	0.000000	-3.906250	42	2102	0	25	-1	9.803922	0.975000	0.000000
2012/01/14 8:28	12	0.000000	-3.906250	37	2062	0	25	-1	9.803922	0.955000	0.000000
2012/01/14 8:28	13	0.000000	-3.906250	37	2060	0	25	-1	9.803922	0.955000	0.000000
2012/01/14 8:28	13	0.000000	-3.906250	40	2028	0	25	-1	9.803922	0.955000	0.000000
2012/01/14 8:28	14	0.000000	-3.906250	37	1974	0	23	-1	9.803922	0.935000	0.000000
2012/01/14 8:28	14	0.000000	-3.906250	40	1968	0	22	-1	9.803922	0.935000	0.000000
2012/01/14 8:28	15	0.000000	-3.906250	42	1962	0	22	-1	9.803922	0.935000	0.000000
2012/01/14 8:28	15	0.000000	-3.906250	37	1935	0	21	-1	9.803922	0.935000	0.000000
2012/01/14 8:28	15	0.000000	-3.906250	40	1909	0	20	-1	9.803922	0.915000	0.000000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft1[%]
2012/01/14 8:28	16	0.000000	-3.906250	39	1916	0	20	-1	9.803922	0.915000	0.000000
2012/01/14 8:28	16	0.000000	-3.906250	37	1898	0	19	-1	9.803922	0.915000	0.000000
2012/01/14 8:28	17	0.000000	-3.906250	39	1867	0	19	-1	9.803922	0.915000	0.000000
2012/01/14 8:28	17	0.000000	-3.906250	39	1844	0	17	-1	9.803922	0.915000	0.000000
2012/01/14 8:28	18	0.000000	-3.906250	39	1835	0	17	-1	9.803922	0.895000	0.000000
2012/01/14 8:28	18	0.000000	-3.906250	39	1809	0	16	-1	9.803922	0.895000	0.000000
2012/01/14 8:28	18	0.000000	-3.906250	42	1790	0	16	-1	9.803922	0.895000	0.000000
2012/01/14 8:28	19	0.000000	-3.906250	43	1777	0	15	-1	9.803922	0.895000	0.000000
2012/01/14 8:28	19	0.000000	-3.906250	45	1801	0	14	-1	9.803922	0.895000	0.000000
2012/01/14 8:28	20	0.000000	-3.906250	45	1740	0	14	0	9.803922	0.855000	0.000000
2012/01/14 8:28	20	0.000000	-3.906250	43	1826	1	13	0	9.803922	0.875000	0.000000
2012/01/14 8:28	20	0.000000	-3.906250	50	1798	2	12	0	9.803922	0.895000	0.000000
2012/01/14 8:28	21	0.000000	-3.906250	45	1731	2	11	0	9.803922	0.875000	0.000000
2012/01/14 8:28	21	0.000000	-3.906250	44	1790	3	11	0	9.803922	0.875000	0.000000
2012/01/14 8:28	22	0.000000	-3.906250	46	1676	2	11	0	9.803922	0.875000	0.000000
2012/01/14 8:28	22	0.000000	-3.906250	43	1837	1	11	0	9.803922	0.895000	0.000000
2012/01/14 8:28	23	0.000000	-3.906250	55	2281	1	32	0	16.470589	0.875000	0.000000
2012/01/14 8:28	23	0.000000	-3.906250	53	1097	5	14	0	11.372549	0.875000	0.000000
2012/01/14 8:29	23	0.000000	-3.906250	69	1199	7	22	0	11.764706	0.895000	0.000000
2012/01/14 8:29	24	0.000000	-3.906250	57	1398	8	25	0	10.588235	0.915000	0.000000
2012/01/14 8:29	24	0.000000	-3.906250	47	1429	9	26	0	11.372549	0.875000	0.000000
2012/01/14 8:29	25	0.000000	-3.906250	47	1976	11	11	0	9.803922	0.875000	0.000000
2012/01/14 8:29	25	0.000000	-3.906250	44	1978	8	11	0	9.803922	0.855000	0.000000
2012/01/14 8:29	25	0.000000	-3.906250	41	1899	5	17	0	9.803922	0.780000	0.000000
2012/01/14 8:29	26	0.000000	-3.906250	56	1543	9	11	0	12.156863	0.835000	0.000000
2012/01/14 8:29	26	0.000000	-3.906250	65	1795	10	26	0	18.039215	0.835000	0.000000
2012/01/14 8:29	26	0.000000	-3.906250	56	2566	15	35	0	9.803922	0.915000	0.000000
2012/01/14 8:29	26	0.000000	-3.906250	33	2526	14	36	0	9.803922	0.875000	0.000000
2012/01/14 8:29	27	0.000000	-3.906250	35	2459	10	36	0	9.803922	0.855000	0.000000
2012/01/14 8:29	27	0.000000	-3.906250	32	2411	8	36	0	9.803922	0.855000	0.000000
2012/01/14 8:29	28	0.000000	-3.906250	35	2263	4	11	1	9.803922	0.720000	0.000000
2012/01/14 8:29	28	0.000000	-3.906250	42	1775	0	11	1	9.803922	0.820000	0.000000
2012/01/14 8:29	28	0.000000	-3.906250	41	1656	0	11	1	9.803922	0.800000	0.000000
2012/01/14 8:29	29	0.000000	-3.906250	40	1607	0	11	1	9.803922	0.820000	0.000000
2012/01/14 8:29	29	0.000000	-3.906250	40	1603	0	11	1	9.803922	0.820000	0.000000
2012/01/14 8:29	30	0.000000	-3.906250	40	1569	0	11	1	9.803922	0.835000	0.000000
2012/01/14 8:29	30	0.000000	-3.906250	39	1610	0	11	1	9.803922	0.835000	0.000000
2012/01/14 8:29	31	0.000000	-3.906250	39	1582	0	11	1	9.803922	0.820000	0.000000
2012/01/14 8:29	31	0.000000	-3.906250	43	1563	0	11	1	9.803922	0.835000	0.000000
2012/01/14 8:29	31	0.000000	-3.906250	48	2199	0	26	1	14.901960	0.855000	0.000000
2012/01/14 8:29	31	0.000000	-3.906250	76	1722	8	22	1	20.000000	0.820000	0.000000
2012/01/14 8:29	32	0.000000	-3.906250	84	2863	17	26	1	29.803921	0.835000	0.000000
2012/01/14 8:29	32	0.000000	-3.906250	40	2361	23	21	1	21.960785	0.740000	0.000000
2012/01/14 8:29	32	0.000000	-3.906250	68	2758	26	22	1	22.352942	0.820000	0.000000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:29	33	0.000000	-3.906250	63	3129	29	25	1	21.960785	0.760000	0.000000
2012/01/14 8:29	33	0.000000	-3.906250	60	3361	32	26	1	22.745098	0.585000	0.000000
2012/01/14 8:29	34	0.000000	-3.906250	24	3175	33	30	1	18.039215	0.875000	0.000000
2012/01/14 8:29	34	0.000000	-3.906250	76	2393	34	26	1	22.352942	0.835000	0.000000
2012/01/14 8:30	35	0.000000	-3.906250	83	2563	36	21	1	25.098040	0.835000	0.000000
2012/01/14 8:30	36	0.000000	-3.906250	76	2743	39	22	1	26.274509	0.855000	0.000000
2012/01/14 8:30	36	0.000000	-3.906250	76	2915	42	23	1	26.666666	0.835000	0.000000
2012/01/14 8:30	37	0.000000	-3.906250	79	3090	45	23	1	24.705883	0.875000	0.000000
2012/01/14 8:30	37	0.000000	-3.906250	25	2487	44	20	1	20.784313	0.740000	0.000000
2012/01/14 8:30	38	0.000000	-3.906250	62	2286	43	19	1	19.215687	0.800000	0.000000
2012/01/14 8:30	39	0.000000	-3.906250	65	2255	42	19	1	20.000000	0.820000	0.000000
2012/01/14 8:30	39	0.000000	-3.906250	65	2255	43	18	2	20.000000	0.820000	0.000000
2012/01/14 8:30	39	0.000000	-3.906250	70	2244	42	18	2	18.823530	0.835000	0.000000
2012/01/14 8:30	40	0.000000	-3.906250	56	2211	42	29	2	16.862745	0.800000	0.000000
2012/01/14 8:30	41	0.000000	-3.906250	54	2134	40	28	2	16.862745	0.800000	0.000000
2012/01/14 8:30	41	0.000000	-3.906250	50	2049	39	29	2	15.686275	0.780000	0.000000
2012/01/14 8:30	42	0.000000	-3.906250	34	1941	37	11	2	9.803922	0.835000	0.000000
2012/01/14 8:30	42	0.000000	-3.906250	35	1728	33	11	2	9.803922	0.820000	0.000000
2012/01/14 8:30	42	0.000000	-3.906250	42	1533	28	11	2	9.803922	0.820000	0.000000
2012/01/14 8:30	43	0.000000	-3.906250	27	2300	23	24	2	14.117647	0.700000	0.000000
2012/01/14 8:30	43	0.000000	-3.906250	54	2268	22	27	2	21.176470	0.585000	0.000000
2012/01/14 8:30	43	0.000000	-3.906250	70	2731	26	21	3	14.901960	0.875000	0.000000
2012/01/14 8:30	44	0.000000	-3.906250	42	2668	25	24	3	18.039215	0.640000	0.000000
2012/01/14 8:30	44	0.000000	-3.906250	53	2770	26	23	3	18.823530	0.700000	0.000000
2012/01/14 8:30	44	0.000000	-3.906250	53	2915	28	25	3	19.215687	0.660000	2.343750
2012/01/14 8:30	45	4.687500	-3.906250	53	3046	29	23	3	23.529411	0.780000	3.906250
2012/01/14 8:30	45	-3.906250	-3.906250	51	3402	33	27	3	20.000000	0.155000	3.906250
2012/01/14 8:30	45	3.125000	-3.906250	36	3315	32	30	3	16.862745	0.135000	7.031250
2012/01/14 8:30	46	5.468750	-3.906250	40	3100	30	28	3	17.254902	0.760000	7.812500
2012/01/14 8:30	46	3.125000	-3.906250	32	2739	29	27	3	10.196078	0.660000	0.000000
2012/01/14 8:30	47	-3.125000	-3.906250	47	1853	27	27	3	11.764706	0.760000	-8.593750
2012/01/14 8:30	47	-7.031250	-3.906250	38	1660	24	10	3	9.803922	0.055000	-5.468750
2012/01/14 8:30	47	-4.687500	-3.906250	83	2417	21	33	3	11.764706	0.800000	-2.343750
2012/01/14 8:30	48	0.000000	-3.906250	43	2026	19	28	3	14.509804	0.760000	-2.343750
2012/01/14 8:31	48	2.343750	-3.906250	51	2075	19	27	4	16.078432	0.780000	0.781250
2012/01/14 8:31	48	-7.812500	-3.906250	26	2051	20	26	4	9.803922	0.035000	-11.718750
2012/01/14 8:31	49	-10.156250	-3.906250	38	1419	17	10	4	9.803922	0.035000	-8.593750
2012/01/14 8:31	49	-7.031250	-3.906250	45	1377	11	10	4	9.803922	0.035000	-5.468750
2012/01/14 8:31	49	-3.906250	-3.906250	45	1421	4	10	4	9.803922	0.760000	0.000000
2012/01/14 8:31	49	0.000000	-3.906250	38	1473	0	10	4	9.803922	0.800000	0.000000
2012/01/14 8:31	50	0.000000	-3.906250	41	1415	0	10	4	9.803922	0.780000	0.000000
2012/01/14 8:31	50	0.000000	-3.906250	39	1340	0	10	4	9.803922	0.780000	0.000000
2012/01/14 8:31	50	0.000000	-3.906250	41	1303	0	10	4	9.803922	0.780000	0.000000
2012/01/14 8:31	50	0.000000	-3.906250	40	1277	0	11	4	9.803922	0.780000	0.000000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:31	50	0.000000	-3.906250	40	1255	0	8	4	9.803922	0.780000	0.000000
2012/01/14 8:31	50	0.000000	-3.906250	35	1301	0	10	4	9.803922	0.800000	0.000000
2012/01/14 8:31	50	0.000000	-3.906250	40	1255	0	9	4	9.803922	0.780000	0.000000
2012/01/14 8:31	50	0.000000	-3.906250	70	2064	2	25	4	19.215687	0.680000	0.000000
2012/01/14 8:31	51	1.562500	-3.906250	67	2015	11	25	4	22.352942	0.055000	1.562500
2012/01/14 8:31	51	-1.562500	-3.906250	64	3191	20	38	4	9.803922	0.800000	0.000000
2012/01/14 8:31	51	-1.562500	-3.906250	60	2265	21	26	4	17.647058	0.800000	0.000000
2012/01/14 8:31	51	-1.562500	-3.906250	38	2367	23	31	4	15.686275	0.230000	4.687500
2012/01/14 8:31	51	4.687500	-3.906250	57	2387	23	28	4	19.607843	0.175000	5.468750
2012/01/14 8:31	51	-0.781250	-3.906250	67	2762	26	28	5	21.960785	0.740000	-1.562500
2012/01/14 8:31	51	2.343750	-3.906250	58	3180	31	31	5	22.352942	0.720000	3.125000
2012/01/14 8:31	52	3.906250	-3.906250	60	3475	33	33	5	9.803922	0.800000	0.000000
2012/01/14 8:31	52	2.343750	-3.906250	76	2387	34	24	5	22.352942	0.740000	-6.250000
2012/01/14 8:31	52	-1.562500	-3.906250	62	2494	36	27	5	20.000000	0.740000	-0.781250
2012/01/14 8:31	53	-5.468750	-3.906250	44	2491	36	31	5	14.509804	0.835000	-2.343750
2012/01/14 8:31	53	-0.781250	-3.906250	43	2361	34	30	5	16.470589	0.445000	3.125000
2012/01/14 8:31	53	3.906250	-3.906250	46	2313	33	29	5	18.039215	0.720000	3.125000
2012/01/14 8:31	53	5.468750	-3.906250	53	2327	33	27	5	19.215687	0.720000	1.562500
2012/01/14 8:31	53	3.906250	-3.906250	55	2364	34	29	5	15.294118	0.820000	-2.343750
2012/01/14 8:31	54	1.562500	-3.906250	40	2252	32	30	5	16.862745	0.720000	2.343750
2012/01/14 8:32	54	3.906250	-3.906250	48	2191	32	28	5	18.823530	0.720000	3.125000
2012/01/14 8:32	54	-0.781250	-3.906250	61	2250	32	26	6	19.607843	0.485000	-2.343750
2012/01/14 8:32	54	-1.562500	-3.906250	61	2355	33	26	6	16.470589	0.115000	0.000000
2012/01/14 8:32	54	-7.031250	-3.906250	21	2196	32	33	6	10.196078	0.760000	-9.375000
2012/01/14 8:32	55	-17.968750	-3.906250	20	1867	28	16	6	9.803922	0.015000	-20.312500
2012/01/14 8:32	55	-15.625000	-3.906250	40	1233	20	10	6	9.803922	0.015000	-10.156250
2012/01/14 8:32	55	-6.250000	-3.906250	41	1332	12	10	6	9.803922	0.055000	-2.343750
2012/01/14 8:32	55	-0.781250	-3.906250	37	1367	6	10	6	9.803922	0.155000	0.781250
2012/01/14 8:32	55	0.781250	-3.906250	37	1371	0	10	7	9.803922	0.720000	-0.781250
2012/01/14 8:32	55	-2.343750	-3.906250	35	1287	0	10	7	9.803922	0.445000	-3.125000
2012/01/14 8:33	58	-3.125000	-3.906250	70	2284	43	25	7	20.392157	0.445000	-0.781250
2012/01/14 8:33	59	-3.906250	-3.906250	56	2319	44	26	7	19.607843	0.700000	0.000000
2012/01/14 8:33	59	0.781250	-3.906250	56	2325	44	26	7	17.647058	0.740000	-4.687500
2012/01/14 8:33	59	0.781250	-3.906250	52	2286	43	28	7	18.039215	0.680000	0.781250
2012/01/14 8:33	59	-1.562500	-3.906250	54	2268	43	27	7	18.431372	0.290000	2.343750
2012/01/14 8:33	60	-2.343750	-3.906250	57	2237	42	27	7	18.823530	0.230000	1.562500
2012/01/14 8:33	60	-6.250000	-3.906250	35	2189	41	30	7	15.294118	0.760000	1.562500
2012/01/14 8:33	60	-0.781250	-3.906250	41	2106	39	28	8	16.078432	0.740000	0.000000
2012/01/14 8:33	60	0.781250	-3.906250	46	2023	39	27	8	16.470589	0.640000	-2.343750
2012/01/14 8:33	60	-3.125000	-3.906250	72	2045	39	23	8	21.176470	0.700000	-4.687500
2012/01/14 8:33	60	-0.781250	-3.906250	71	2127	40	23	8	21.960785	0.605000	-5.468750
2012/01/14 8:33	61	-4.687500	-3.906250	73	2221	42	24	8	22.352942	0.545000	-1.562500
2012/01/14 8:33	61	-4.687500	-3.906250	73	2347	43	24	8	22.352942	0.270000	-2.343750
2012/01/14 8:33	61	-4.687500	-3.906250	66	2402	46	25	8	18.039215	0.740000	-6.250000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:33	62	1.562500	-3.906250	48	2390	45	29	8	18.039215	0.210000	1.562500
2012/01/14 8:33	62	1.562500	-3.906250	52	2364	45	29	8	18.039215	0.700000	0.781250
2012/01/14 8:33	62	3.906250	-3.906250	53	2341	45	28	8	16.470589	0.800000	0.781250
2012/01/14 8:33	62	3.906250	-3.906250	45	2300	44	28	8	18.431372	0.625000	1.562500
2012/01/14 8:33	62	2.343750	-3.906250	53	2333	43	27	8	19.215687	0.700000	0.781250
2012/01/14 8:33	62	3.125000	-3.906250	55	2322	44	27	8	18.823530	0.700000	0.781250
2012/01/14 8:33	62	0.000000	-3.906250	42	2270	43	29	8	16.862745	0.585000	-0.781250
2012/01/14 8:33	63	3.906250	-3.906250	44	2214	42	29	9	16.862745	0.740000	1.562500
2012/01/14 8:33	63	5.468750	-3.906250	55	2177	41	26	9	18.431372	0.425000	3.125000
2012/01/14 8:33	63	5.468750	-3.906250	35	2097	40	30	9	14.509804	0.720000	1.562500
2012/01/14 8:33	63	-2.343750	-3.906250	37	2005	38	29	9	15.294118	0.660000	2.343750
2012/01/14 8:34	63	-2.343750	-3.906250	48	1931	36	26	9	16.862745	0.720000	0.000000
2012/01/14 8:34	63	-3.125000	-3.906250	43	1764	35	13	10	10.196078	0.015000	0.000000
2012/01/14 8:34	63	3.125000	-3.906250	44	2358	34	30	10	16.470589	0.210000	4.687500
2012/01/14 8:34	63	0.000000	-3.906250	42	2339	33	30	10	16.078432	0.250000	1.562500
2012/01/14 8:34	63	6.250000	-3.906250	35	2260	33	31	10	13.725491	0.760000	3.906250
2012/01/14 8:34	64	2.343750	-3.906250	30	2136	31	32	10	12.941176	0.855000	0.000000
2012/01/14 8:34	64	0.000000	-3.906250	20	2712	26	36	10	9.803922	0.000000	0.000000
2012/01/14 8:34	64	0.000000	-3.906250	20	2141	21	32	10	14.117647	0.015000	3.125000
2012/01/14 8:34	64	3.906250	-3.906250	41	1999	19	29	10	14.509804	0.155000	3.906250
2012/01/14 8:34	64	3.125000	-3.906250	22	1860	18	30	11	11.764706	0.055000	1.562500
2012/01/14 8:34	64	1.562500	-3.906250	34	1719	17	27	11	13.725491	0.800000	2.343750
2012/01/14 8:34	64	1.562500	-3.906250	47	1791	17	26	11	14.901960	0.760000	0.781250
2012/01/14 8:34	64	-1.562500	-3.906250	51	1924	18	26	11	16.862745	0.640000	4.687500
2012/01/14 8:34	64	2.343750	-3.906250	68	2378	22	26	11	21.568628	0.230000	1.562500
2012/01/14 8:34	64	-1.562500	-3.906250	65	2889	27	29	11	22.352942	0.740000	0.781250
2012/01/14 8:34	64	4.687500	-3.906250	60	3361	32	32	11	23.529411	0.565000	0.781250
2012/01/14 8:34	65	0.000000	-3.906250	15	2919	35	34	10	20.392157	0.820000	-2.343750
2012/01/14 8:34	65	0.000000	-3.906250	45	2481	35	30	10	18.039215	0.740000	6.250000
2012/01/14 8:34	65	0.781250	-3.906250	55	2526	36	29	10	19.607843	0.565000	4.687500
2012/01/14 8:34	65	-3.906250	-3.906250	47	2583	37	30	10	19.215687	0.680000	0.781250
2012/01/14 8:34	65	4.687500	-3.906250	55	2635	38	29	10	20.000000	0.720000	0.000000
2012/01/14 8:34	65	-3.906250	-3.906250	60	2739	39	28	10	21.176470	0.640000	-3.906250
2012/01/14 8:34	65	-1.562500	-3.906250	60	2826	40	30	10	21.176470	0.465000	-3.125000
2012/01/14 8:34	66	0.000000	-3.906250	20	2127	41	25	10	20.784313	0.095000	0.000000
2012/01/14 8:34	66	-2.343750	-3.906250	44	2120	40	27	10	17.254902	0.700000	0.781250
2012/01/14 8:34	66	2.343750	-3.906250	66	2102	40	23	10	21.176470	0.680000	-3.125000
2012/01/14 8:34	67	-2.343750	-3.906250	67	2160	41	24	10	21.176470	0.290000	0.000000
2012/01/14 8:34	67	-3.906250	-3.906250	57	2214	41	26	10	18.039215	0.680000	-1.562500
2012/01/14 8:34	67	0.781250	-3.906250	54	2191	42	26	10	19.215687	0.740000	0.000000
2012/01/14 8:34	67	-3.125000	-3.906250	29	2150	41	31	10	13.333333	0.740000	3.125000
2012/01/14 8:35	67	-3.125000	-3.906250	44	2032	38	27	10	16.862745	0.640000	-2.343750
2012/01/14 8:35	67	2.343750	-3.906250	50	1996	38	26	11	17.647058	0.115000	3.125000
2012/01/14 8:35	67	0.000000	-3.906250	64	1990	38	31	11	9.803922	0.835000	-1.562500

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:35	67	-9.375000	-3.906250	27	1692	33	16	11	9.803922	0.035000	-3.906250
2012/01/14 8:35	68	-3.125000	-3.906250	36	1291	25	10	11	9.803922	0.680000	-4.687500
2012/01/14 8:35	68	-5.468750	-3.906250	33	1252	17	10	12	10.196078	0.095000	-5.468750
2012/01/14 8:35	68	-4.687500	-3.906250	33	1232	12	10	12	9.803922	0.585000	-5.468750
2012/01/14 8:35	68	-5.468750	-3.906250	38	1201	7	10	12	10.196078	0.210000	-6.250000
2012/01/14 8:35	68	-4.687500	-3.906250	32	1227	4	10	12	9.803922	0.095000	-5.468750
2012/01/14 8:35	68	-4.687500	-3.906250	33	1206	3	10	12	9.803922	0.310000	-6.250000
2012/01/14 8:35	68	-4.687500	-3.906250	32	1198	1	10	12	9.803922	0.095000	-3.906250
2012/01/14 8:35	68	-4.687500	-3.906250	36	1120	1	10	13	9.803922	0.175000	-3.906250
2012/01/14 8:35	68	-5.468750	-3.906250	35	1091	0	10	13	9.803922	0.095000	-3.906250
2012/01/14 8:35	68	-5.468750	-3.906250	32	1045	0	9	13	9.803922	0.720000	-5.468750
2012/01/14 8:35	68	-6.250000	-3.906250	36	1059	0	6	13	9.803922	0.115000	-4.687500
2012/01/14 8:35	68	-6.250000	-3.906250	32	1054	0	11	14	9.803922	0.640000	-4.687500
2012/01/14 8:35	68	-4.687500	-3.906250	34	1054	0	7	14	10.196078	0.625000	-5.468750
2012/01/14 8:35	68	-3.906250	-3.906250	34	1048	0	11	14	9.803922	0.310000	-5.468750
2012/01/14 8:35	68	-3.906250	-3.906250	32	1051	0	8	14	9.803922	0.115000	-3.906250
2012/01/14 8:35	68	-2.343750	-3.906250	35	1045	0	10	14	9.803922	0.330000	-4.687500
2012/01/14 8:35	68	-3.125000	-3.906250	32	1049	0	9	15	9.803922	0.700000	-3.125000
2012/01/14 8:35	68	-3.125000	-3.906250	32	1050	0	7	15	9.803922	0.700000	-3.125000
2012/01/14 8:35	68	-3.125000	-3.906250	36	1055	0	8	15	9.803922	0.095000	-2.343750
2012/01/14 8:35	67	-2.343750	-3.906250	31	1044	0	7	15	9.803922	0.135000	-3.125000
2012/01/14 8:35	67	-1.562500	-3.906250	36	1030	0	9	15	9.803922	0.625000	-2.343750
2012/01/14 8:35	67	-2.343750	-3.906250	33	1045	0	8	15	10.196078	0.370000	-0.781250
2012/01/14 8:35	67	-2.343750	-3.906250	35	1047	0	8	15	9.803922	0.135000	-0.781250
2012/01/14 8:35	67	-1.562500	-3.906250	32	1047	0	10	15	9.803922	0.115000	-1.562500
2012/01/14 8:35	67	0.000000	-3.906250	36	1064	0	6	15	9.803922	0.195000	-1.562500
2012/01/14 8:35	67	-1.562500	-3.906250	51	1968	0	27	16	20.000000	0.835000	3.125000
2012/01/14 8:36	67	0.781250	-3.906250	57	1529	5	21	15	12.941176	0.740000	-0.781250
2012/01/14 8:36	67	5.468750	-3.906250	55	1585	9	23	15	16.078432	0.485000	3.906250
2012/01/14 8:36	67	0.000000	-3.906250	70	2384	14	25	15	23.921568	0.425000	-3.906250
2012/01/14 8:36	67	1.562500	-3.906250	60	3692	22	42	15	9.803922	0.800000	0.000000
2012/01/14 8:36	67	-0.781250	-3.906250	82	3046	28	27	15	25.882353	0.075000	-0.781250
2012/01/14 8:36	67	0.781250	-3.906250	76	3748	36	30	14	30.980392	0.700000	-5.468750
2012/01/14 8:36	67	0.000000	-3.906250	17	2910	39	25	13	29.019608	0.740000	1.562500
2012/01/14 8:36	67	-3.906250	-3.906250	81	3061	43	26	13	30.588236	0.605000	-5.468750
2012/01/14 8:36	68	-3.906250	-3.906250	80	3432	49	27	12	30.980392	0.585000	0.000000
2012/01/14 8:36	68	-1.562500	-3.906250	78	3755	54	29	12	31.372549	0.760000	-4.687500
2012/01/14 8:36	68	-3.906250	-3.906250	81	4068	58	30	11	31.372549	0.720000	-7.031250
2012/01/14 8:36	68	0.000000	-3.906250	45	3175	60	31	11	19.215687	0.760000	-1.562500
2012/01/14 8:36	69	2.343750	-3.906250	45	3090	59	34	11	19.607843	0.525000	1.562500
2012/01/14 8:36	69	3.125000	-3.906250	51	3051	58	31	11	21.176470	0.780000	4.687500
2012/01/14 8:36	70	-0.781250	-3.906250	57	3051	58	30	12	22.745098	0.700000	-2.343750
2012/01/14 8:36	70	-0.781250	-3.906250	69	3070	58	29	12	24.313726	0.720000	-2.343750
2012/01/14 8:36	70	0.000000	-3.906250	70	3119	59	28	12	25.098040	0.720000	-3.125000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:36	70	-2.343750	-3.906250	73	3139	60	28	12	26.274509	0.505000	-6.250000
2012/01/14 8:36	70	-4.687500	-3.906250	74	3114	59	27	12	27.450981	0.195000	-3.906250
2012/01/14 8:36	71	-7.031250	-3.906250	80	3075	59	27	11	28.235294	0.640000	-3.125000
2012/01/14 8:36	71	-4.687500	-3.906250	83	3080	58	26	11	28.627451	0.740000	-6.250000
2012/01/14 8:36	71	-4.687500	-3.906250	80	3056	58	26	11	28.627451	0.740000	-6.250000
2012/01/14 8:36	71	-4.687500	-3.906250	72	3100	59	28	10	25.490196	0.210000	-3.906250
2012/01/14 8:36	72	-6.250000	-3.906250	60	3139	60	30	10	21.568628	0.625000	-3.906250
2012/01/14 8:36	72	0.781250	-3.906250	40	3129	60	35	11	18.431372	0.585000	0.781250
2012/01/14 8:36	73	0.781250	-3.906250	41	3155	60	35	11	18.039215	0.095000	3.906250
2012/01/14 8:36	73	2.343750	-3.906250	35	3160	60	36	11	16.862745	0.525000	0.000000
2012/01/14 8:36	73	2.343750	-3.906250	27	3119	59	37	12	16.862745	0.115000	4.687500
2012/01/14 8:36	74	5.468750	-3.906250	47	3070	58	33	12	20.784313	0.660000	3.906250
2012/01/14 8:36	74	-0.781250	-3.906250	55	3066	59	31	12	21.960785	0.390000	-1.562500
2012/01/14 8:37	74	-0.781250	-3.906250	58	3051	59	30	12	22.352942	0.425000	-2.343750
2012/01/14 8:37	74	0.000000	-3.906250	60	3066	59	30	12	22.745098	0.230000	1.562500
2012/01/14 8:37	74	-2.343750	-3.906250	60	3110	59	30	12	22.745098	0.720000	0.000000
2012/01/14 8:37	75	2.343750	-3.906250	59	3134	60	32	12	21.176470	0.625000	3.125000
2012/01/14 8:37	75	3.125000	-3.906250	55	3144	60	31	12	21.960785	0.700000	0.000000
2012/01/14 8:37	75	0.781250	-3.906250	61	3160	61	31	12	22.352942	0.290000	2.343750
2012/01/14 8:37	76	-1.562500	-3.906250	56	3175	61	31	12	21.960785	0.640000	0.000000
2012/01/14 8:37	76	0.781250	-3.906250	60	3165	60	31	12	21.960785	0.505000	-1.562500
2012/01/14 8:37	76	-0.781250	-3.906250	56	3134	60	31	12	21.960785	0.605000	2.343750
2012/01/14 8:37	76	2.343750	-3.906250	57	3114	60	31	12	21.960785	0.640000	-0.781250
2012/01/14 8:37	77	0.000000	-3.906250	62	3095	59	31	12	21.960785	0.505000	2.343750
2012/01/14 8:37	77	1.562500	-3.125000	58	3080	59	30	12	22.352942	0.585000	-1.562500
2012/01/14 8:37	77	-1.562500	-3.125000	63	3090	59	30	12	22.745098	0.425000	0.781250
2012/01/14 8:37	77	0.781250	-3.125000	60	3119	60	30	12	22.352942	0.640000	-1.562500
2012/01/14 8:37	78	2.343750	-3.125000	45	3119	60	33	12	19.215687	0.605000	2.343750
2012/01/14 8:37	78	1.562500	-3.125000	15	3018	59	39	12	14.901960	0.015000	2.343750
2012/01/14 8:37	78	0.000000	-3.125000	18	2798	54	37	12	10.980392	0.000000	0.000000
2012/01/14 8:37	78	0.000000	-3.125000	15	2583	49	34	13	13.725491	0.760000	1.562500
2012/01/14 8:37	78	0.000000	-3.125000	27	2453	47	33	14	13.725491	0.605000	-2.343750
2012/01/14 8:37	78	-3.906250	-3.125000	22	2339	45	35	15	10.588235	0.740000	0.000000
2012/01/14 8:37	78	0.000000	-3.125000	20	2153	42	33	15	10.980392	0.000000	0.000000
2012/01/14 8:37	78	0.781250	-3.125000	30	2015	38	30	16	13.333333	0.740000	2.343750
2012/01/14 8:37	78	0.781250	-3.125000	37	1939	37	30	16	23.529411	0.855000	-1.562500
2012/01/14 8:37	78	1.562500	-3.125000	70	2632	37	26	16	18.039215	0.035000	3.125000
2012/01/14 8:37	78	1.562500	-3.125000	42	2754	40	32	16	17.647058	0.640000	-1.562500
2012/01/14 8:37	78	-5.468750	-3.125000	32	2716	39	34	15	15.294118	0.155000	-2.343750
2012/01/14 8:37	78	-1.562500	-3.125000	45	2657	38	31	15	18.431372	0.485000	-3.906250
2012/01/14 8:37	78	-2.343750	-3.125000	50	2720	39	31	15	19.215687	0.230000	0.781250
2012/01/14 8:37	78	-3.125000	-3.125000	49	2834	40	36	15	16.078432	0.115000	2.343750
2012/01/14 8:37	78	-2.343750	-3.125000	39	2766	39	33	15	17.254902	0.700000	-1.562500
2012/01/14 8:38	78	0.781250	-3.125000	50	2743	39	34	15	15.686275	0.720000	0.000000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:38	78	3.125000	-3.125000	16	2214	37	20	15	10.196078	0.015000	0.000000
2012/01/14 8:38	78	0.781250	-3.125000	35	3310	32	40	15	20.784313	0.780000	10.937500
2012/01/14 8:38	78	0.781250	-3.125000	73	3741	35	30	16	30.196079	0.680000	-2.343750
2012/01/14 8:38	78	-3.125000	-3.125000	80	4489	43	29	15	17.647058	0.015000	0.000000
2012/01/14 8:38	78	3.906250	-3.125000	88	3233	46	25	14	33.725491	0.720000	0.781250
2012/01/14 8:38	78	1.562500	-3.125000	83	3603	51	27	13	33.725491	0.565000	-3.125000
2012/01/14 8:38	78	0.000000	-3.125000	18	3196	55	34	13	9.803922	0.035000	0.000000
2012/01/14 8:38	78	1.562500	-3.125000	30	2679	52	34	13	14.901960	0.605000	-5.468750
2012/01/14 8:38	79	-10.156250	-3.125000	21	2520	49	35	13	12.156863	0.095000	-12.500000
2012/01/14 8:38	79	-9.375000	-3.125000	21	2344	46	33	14	14.901960	0.055000	1.562500
2012/01/14 8:38	79	0.000000	-3.125000	32	2276	44	31	15	15.294118	0.720000	0.781250
2012/01/14 8:38	79	2.343750	-3.125000	40	2221	42	30	15	16.078432	0.095000	3.125000
2012/01/14 8:38	79	3.125000	-3.125000	48	2209	42	27	16	18.823530	0.640000	3.125000
2012/01/14 8:38	79	-2.343750	-3.125000	63	2268	43	26	16	19.607843	0.700000	0.000000
2012/01/14 8:38	79	2.343750	-3.125000	50	2341	45	28	16	17.647058	0.625000	-0.781250
2012/01/14 8:38	79	0.000000	-3.125000	71	2370	44	23	15	12.941176	0.015000	0.000000
2012/01/14 8:38	80	-2.343750	-3.125000	69	2393	45	24	15	17.647058	0.640000	1.562500
2012/01/14 8:38	80	3.125000	-3.125000	42	2399	46	30	15	19.607843	0.700000	0.000000
2012/01/14 8:38	80	0.781250	-3.125000	32	2393	45	32	15	14.901960	0.720000	-3.125000
2012/01/14 8:38	80	1.562500	-3.125000	45	2355	45	31	15	15.294118	0.445000	-3.906250
2012/01/14 8:38	80	-0.781250	-3.125000	33	2303	44	31	16	16.078432	0.270000	2.343750
2012/01/14 8:38	80	-2.343750	-3.125000	36	2255	43	30	16	16.862745	0.740000	0.000000
2012/01/14 8:38	80	0.000000	-3.125000	44	2237	43	29	16	16.470589	0.155000	1.562500
2012/01/14 8:38	80	-1.562500	-3.125000	45	2227	42	28	16	17.647058	0.720000	0.000000
2012/01/14 8:38	80	0.781250	-3.125000	58	2252	43	27	16	14.117647	0.035000	-2.343750
2012/01/14 8:38	80	1.562500	-2.343750	45	2242	43	28	16	17.254902	0.680000	-0.781250
2012/01/14 8:38	80	2.343750	-2.343750	56	2247	43	27	16	18.431372	0.700000	-0.781250
2012/01/14 8:38	80	-2.343750	-2.343750	49	2260	43	28	16	16.078432	0.605000	-3.906250
2012/01/14 8:38	80	2.343750	-2.343750	43	2221	42	29	16	16.078432	0.155000	0.781250
2012/01/14 8:39	81	0.781250	-2.343750	51	2191	42	27	16	18.039215	0.680000	-1.562500
2012/01/14 8:39	81	0.000000	-2.343750	53	2211	41	27	16	17.254902	0.640000	-1.562500
2012/01/14 8:39	81	0.781250	-2.343750	43	2172	41	29	17	16.470589	0.505000	0.000000
2012/01/14 8:39	81	-2.343750	-2.343750	47	2153	41	28	17	16.862745	0.135000	0.781250
2012/01/14 8:39	81	-1.562500	-2.343750	49	2132	40	27	17	16.862745	0.585000	-2.343750
2012/01/14 8:39	81	-1.562500	-2.343750	50	2132	40	27	17	16.862745	0.640000	-2.343750
2012/01/14 8:39	81	-0.781250	-2.343750	49	2148	40	28	17	16.862745	0.565000	-2.343750
2012/01/14 8:39	81	-1.562500	-2.343750	45	2160	40	28	17	16.862745	0.585000	-3.125000
2012/01/14 8:39	81	-1.562500	-2.343750	47	2170	41	28	17	16.862745	0.505000	-3.125000
2012/01/14 8:39	81	-1.562500	-2.343750	60	2199	41	26	17	19.215687	0.545000	0.000000
2012/01/14 8:39	81	-3.125000	-2.343750	57	2273	43	26	17	19.215687	0.720000	-0.781250
2012/01/14 8:39	81	1.562500	-2.343750	55	2319	44	27	17	18.823530	0.605000	-1.562500
2012/01/14 8:39	82	-0.781250	-2.343750	49	2370	45	28	17	17.647058	0.680000	-1.562500
2012/01/14 8:39	82	0.000000	-2.343750	41	2347	44	32	17	12.941176	0.835000	-0.781250
2012/01/14 8:39	82	-8.593750	-2.343750	28	2244	43	32	17	16.470589	0.095000	-0.781250

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:39	82	3.125000	-2.343750	22	1996	42	31	17	9.803922	0.000000	0.000000
2012/01/14 8:39	82	0.000000	-2.343750	15	2604	38	36	18	9.803922	0.000000	0.000000
2012/01/14 8:39	82	0.000000	-2.343750	16	2097	31	31	18	9.803922	0.000000	-3.125000
2012/01/14 8:39	82	0.781250	-2.343750	30	1102	20	10	19	9.803922	0.720000	-1.562500
2012/01/14 8:39	82	-0.781250	-2.343750	34	1096	13	10	19	9.803922	0.230000	-1.562500
2012/01/14 8:39	82	-7.031250	-2.343750	32	1062	9	10	20	9.803922	0.740000	-3.125000
2012/01/14 8:39	82	-3.906250	-2.343750	33	1041	5	10	20	9.803922	0.605000	-3.906250
2012/01/14 8:39	82	-4.687500	-2.343750	32	1025	0	10	20	9.803922	0.660000	-4.687500
2012/01/14 8:39	82	-5.468750	-2.343750	34	905	0	10	20	9.803922	0.075000	-5.468750
2012/01/14 8:39	82	-3.906250	-2.343750	30	882	0	10	20	9.803922	0.625000	-3.906250
2012/01/14 8:39	82	-5.468750	-2.343750	35	825	0	6	21	9.803922	0.075000	-3.906250
2012/01/14 8:39	82	-2.343750	-2.343750	30	831	0	6	21	9.803922	0.370000	-3.906250
2012/01/14 8:39	82	-3.906250	-2.343750	33	824	0	6	21	9.803922	0.250000	-2.343750
2012/01/14 8:39	82	-3.906250	-2.343750	30	820	0	7	22	9.803922	0.075000	-4.687500
2012/01/14 8:39	82	-3.125000	-2.343750	30	826	0	6	22	9.803922	0.390000	-1.562500
2012/01/14 8:40	82	-3.125000	-2.343750	32	825	0	13	22	9.803922	0.175000	-4.687500
2012/01/14 8:40	81	-3.906250	-2.343750	32	818	0	6	22	9.803922	0.195000	-2.343750
2012/01/14 8:40	81	-0.781250	-2.343750	34	827	0	7	22	9.803922	0.175000	-3.125000
2012/01/14 8:40	81	-3.125000	-2.343750	35	818	0	18	23	12.156863	0.135000	1.562500
2012/01/14 8:40	81	0.781250	-2.343750	27	1711	0	29	23	12.156863	0.700000	-0.781250
2012/01/14 8:40	81	2.343750	-2.343750	25	1778	0	29	23	12.156863	0.740000	-0.781250
2012/01/14 8:40	80	3.906250	-2.343750	26	1846	0	30	23	12.549020	0.250000	1.562500
2012/01/14 8:40	80	-3.125000	-2.343750	25	1899	0	30	23	12.549020	0.605000	-6.250000
2012/01/14 8:40	80	-3.125000	-2.343750	28	1941	0	31	23	12.549020	0.760000	-4.687500
2012/01/14 8:40	79	0.781250	-2.343750	27	2003	0	31	24	9.803922	0.035000	0.000000
2012/01/14 8:40	79	0.000000	-2.343750	32	1100	0	24	24	14.509804	0.015000	3.125000
2012/01/14 8:40	79	3.125000	-2.343750	79	1375	7	19	24	20.000000	0.565000	-3.125000
2012/01/14 8:40	79	0.781250	-2.343750	79	3105	18	27	23	30.588236	0.660000	-0.781250
2012/01/14 8:40	80	0.000000	-2.343750	15	3110	27	13	22	36.078430	0.720000	-3.125000
2012/01/14 8:40	80	-1.562500	-2.343750	88	3875	36	27	21	37.647060	0.720000	-2.343750
2012/01/14 8:40	79	-2.343750	-2.343750	16	4273	45	46	19	21.960785	0.800000	3.125000
2012/01/14 8:40	80	-1.562500	-2.343750	91	3450	49	25	18	39.215687	0.605000	-6.250000
2012/01/14 8:40	80	-6.250000	-2.343750	91	3898	56	26	17	39.215687	0.210000	-10.156250
2012/01/14 8:40	80	0.000000	-2.343750	36	3603	59	42	16	23.921568	0.175000	-2.343750
2012/01/14 8:40	81	0.000000	-2.343750	68	3080	59	28	16	23.529411	0.525000	0.000000
2012/01/14 8:40	81	0.781250	-2.343750	60	3129	60	31	16	21.568628	0.740000	0.000000
2012/01/14 8:40	81	1.562500	-2.343750	55	3129	60	31	16	21.568628	0.660000	-1.562500
2012/01/14 8:40	82	2.343750	-2.343750	60	3129	60	31	17	21.960785	0.680000	-1.562500
2012/01/14 8:40	82	-0.781250	-2.343750	58	3110	60	30	17	22.352942	0.625000	-3.125000
2012/01/14 8:40	82	-2.343750	-2.343750	60	3085	59	29	17	23.529411	0.465000	-3.906250
2012/01/14 8:40	83	-3.125000	-2.343750	71	3105	59	28	17	24.313726	0.350000	-5.468750
2012/01/14 8:40	83	-4.687500	-2.343750	71	3085	59	28	17	24.705883	0.720000	0.000000
2012/01/14 8:40	83	-0.781250	-2.343750	59	3129	59	31	17	10.980392	0.055000	0.000000
2012/01/14 8:40	83	3.906250	-2.343750	51	3023	58	31	17	21.960785	0.720000	0.000000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:40	83	-3.906250	-2.343750	65	3129	59	30	17	20.392157	0.115000	-0.781250
2012/01/14 8:41	83	-2.343750	-2.343750	39	3150	60	35	17	18.823530	0.740000	1.562500
2012/01/14 8:41	83	3.906250	-2.343750	47	3125	60	32	17	20.784313	0.410000	1.562500
2012/01/14 8:41	83	-3.125000	-2.343750	42	3105	59	36	17	16.862745	0.155000	3.125000
2012/01/14 8:41	83	-0.781250	-2.343750	30	2995	57	31	18	20.392157	0.545000	-3.125000
2012/01/14 8:41	84	-3.125000	-2.343750	56	2968	57	31	18	20.784313	0.565000	0.781250
2012/01/14 8:41	84	-3.906250	-2.343750	58	2995	57	30	18	22.352942	0.700000	-2.343750
2012/01/14 8:41	84	-5.468750	-2.343750	15	2928	56	39	18	10.980392	0.000000	0.000000
2012/01/14 8:41	84	-2.343750	-2.343750	33	2758	53	33	18	19.215687	0.720000	-2.343750
2012/01/14 8:41	84	-1.562500	-2.343750	55	2754	53	30	18	20.000000	0.660000	-0.781250
2012/01/14 8:41	84	-2.343750	-2.343750	53	2794	53	30	18	20.000000	0.680000	-0.781250
2012/01/14 8:41	84	-2.343750	-2.343750	53	2872	54	31	18	19.607843	0.720000	-3.125000
2012/01/14 8:41	84	-3.906250	-2.343750	42	2972	57	33	18	18.431372	0.135000	-0.781250
2012/01/14 8:41	84	-3.125000	-2.343750	42	3032	57	35	18	17.254902	0.680000	1.562500
2012/01/14 8:41	84	-4.687500	-2.343750	27	3037	58	39	18	9.803922	0.680000	0.000000
2012/01/14 8:41	84	0.000000	-2.343750	17	2937	56	38	19	9.803922	0.000000	0.000000
2012/01/14 8:41	84	0.000000	-2.343750	16	2826	54	38	20	9.803922	0.000000	0.000000
2012/01/14 8:41	84	2.343750	-2.343750	59	2782	53	29	20	21.960785	0.545000	0.781250
2012/01/14 8:41	84	-3.125000	-2.343750	80	2855	54	23	20	36.470589	0.640000	-6.250000
2012/01/14 8:41	84	0.000000	-2.343750	98	2990	56	20	20	75.294121	0.855000	0.000000
2012/01/14 8:41	84	0.000000	-2.343750	93	3090	59	21	18	50.980392	0.855000	0.000000
2012/01/14 8:41	84	0.000000	-2.343750	97	3191	60	21	16	49.019608	0.875000	0.000000
2012/01/14 8:41	84	0.000000	-2.343750	87	3260	62	26	15	18.039215	0.585000	-1.562500
2012/01/14 8:41	84	0.000000	-2.343750	29	3090	60	34	14	17.647058	0.800000	0.781250
2012/01/14 8:41	84	0.781250	-2.343750	27	2876	56	36	15	14.117647	0.760000	-10.937500
2012/01/14 8:41	84	-11.718750	-2.343750	27	2642	51	36	15	10.196078	0.680000	0.000000
2012/01/14 8:41	84	4.687500	-2.343750	32	2387	45	35	17	12.549020	0.820000	-0.781250
2012/01/14 8:41	84	-9.375000	-2.343750	19	2199	42	33	18	11.372549	0.095000	-10.937500
2012/01/14 8:41	84	0.000000	-2.343750	17	1972	38	29	19	18.431372	0.485000	0.000000
2012/01/14 8:41	84	0.000000	-2.343750	18	2311	34	32	19	13.333333	0.565000	6.250000
2012/01/14 8:41	84	0.781250	-2.343750	41	2111	31	26	20	21.176470	0.760000	0.000000
2012/01/14 8:42	84	-2.343750	-2.343750	61	2295	33	28	20	17.647058	0.660000	3.125000
2012/01/14 8:42	84	3.906250	-2.343750	32	2330	33	31	20	17.254902	0.720000	6.250000
2012/01/14 8:42	84	-0.781250	-1.562500	69	2523	36	26	20	23.921568	0.700000	-1.562500
2012/01/14 8:42	84	-5.468750	-1.562500	75	2822	40	26	20	30.196079	0.720000	-3.125000
2012/01/14 8:42	84	-5.468750	-1.562500	78	3249	46	27	19	29.803921	0.585000	-3.125000
2012/01/14 8:42	84	-3.906250	-1.562500	80	3630	52	29	18	13.333333	0.015000	0.000000
2012/01/14 8:42	84	-3.906250	-1.562500	75	2842	54	30	18	20.784313	0.720000	-3.125000
2012/01/14 8:42	84	-0.781250	-1.562500	55	2893	55	31	17	17.647058	0.075000	-2.343750
2012/01/14 8:42	84	-9.375000	-1.562500	15	2770	54	37	18	9.803922	0.000000	0.000000
2012/01/14 8:42	84	0.000000	-1.562500	19	2341	49	33	18	27.058823	0.035000	0.000000
2012/01/14 8:42	84	0.000000	-1.562500	15	3042	44	39	19	9.803922	0.000000	0.000000
2012/01/14 8:42	84	0.000000	-1.562500	16	2705	39	36	20	9.803922	0.000000	0.000000
2012/01/14 8:42	84	0.000000	-1.562500	56	3596	35	41	20	23.137255	0.700000	8.593750

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:42	84	4.687500	-1.562500	25	3678	35	41	21	17.647058	0.075000	7.812500
2012/01/14 8:42	84	1.562500	-1.562500	34	3551	35	38	20	22.352942	0.760000	10.156250
2012/01/14 8:42	84	0.000000	-1.562500	13	2945	36	34	20	16.470589	0.310000	2.343750
2012/01/14 8:42	84	0.000000	-1.562500	44	2453	35	30	20	12.941176	0.780000	1.562500
2012/01/14 8:42	84	-8.593750	-1.562500	26	2265	33	33	21	32.549019	0.800000	0.000000
2012/01/14 8:42	84	3.125000	-1.562500	24	2893	29	36	21	14.509804	0.720000	-5.468750
2012/01/14 8:42	84	-7.812500	-1.562500	32	2604	25	32	21	17.254902	0.760000	0.000000
2012/01/14 8:42	84	-2.343750	-1.562500	35	2529	25	34	22	14.509804	0.585000	-11.718750
2012/01/14 8:42	84	-1.562500	-1.562500	44	2355	23	30	22	16.862745	0.195000	2.343750
2012/01/14 8:42	84	0.000000	-1.562500	20	2120	21	30	22	15.686275	0.210000	2.343750
2012/01/14 8:42	84	4.687500	-1.562500	61	2265	21	26	22	20.392157	0.660000	-2.343750
2012/01/14 8:42	84	-1.562500	-1.562500	45	2625	25	31	22	18.039215	0.445000	0.000000
2012/01/14 8:42	84	-5.468750	-1.562500	48	2770	26	31	21	20.000000	0.350000	-5.468750
2012/01/14 8:42	84	0.781250	-1.562500	68	3139	30	29	21	26.274509	0.310000	0.000000
2012/01/14 8:42	84	0.781250	-1.562500	51	3590	36	42	20	9.803922	0.015000	0.000000
2012/01/14 8:42	84	3.906250	-1.562500	70	2500	35	28	20	20.392157	0.780000	0.000000
2012/01/14 8:42	84	-2.343750	-1.562500	55	2604	37	29	20	20.392157	0.660000	-3.125000
2012/01/14 8:43	84	-2.343750	-1.562500	66	2754	39	26	20	24.705883	0.390000	-7.031250
2012/01/14 8:43	84	-6.250000	-1.562500	70	2954	42	27	20	24.705883	0.720000	-3.906250
2012/01/14 8:43	84	-3.906250	-1.562500	63	3139	45	31	19	20.000000	0.565000	-4.687500
2012/01/14 8:43	84	2.343750	-1.562500	47	3129	45	33	19	19.607843	0.680000	-0.781250
2012/01/14 8:43	84	1.562500	-1.562500	47	3080	44	34	19	14.901960	0.740000	-4.687500
2012/01/14 8:43	84	-3.906250	-1.562500	15	4155	42	46	19	9.803922	0.000000	0.000000
2012/01/14 8:43	84	0.000000	-1.562500	15	3577	36	43	19	9.803922	0.000000	0.000000
2012/01/14 8:43	84	0.000000	-1.562500	15	3004	29	38	20	9.803922	0.000000	0.000000
2012/01/14 8:43	84	0.000000	-1.562500	24	1042	17	16	21	9.803922	0.740000	-3.906250
2012/01/14 8:43	84	-8.593750	-1.562500	35	1077	8	10	22	9.803922	0.720000	-8.593750
2012/01/14 8:43	84	-7.031250	-1.562500	30	1030	0	10	23	9.803922	0.425000	-9.375000
2012/01/14 8:43	84	2.343750	-1.562500	73	2347	0	23	23	9.803922	0.015000	0.000000
2012/01/14 8:43	84	1.562500	-1.562500	88	1947	3	14	23	29.411764	0.740000	-5.468750
2012/01/14 8:43	84	-0.781250	-1.562500	82	3018	17	28	23	9.803922	0.015000	0.000000
2012/01/14 8:43	84	-3.125000	-1.562500	92	2690	24	21	22	39.607841	0.855000	0.000000
2012/01/14 8:43	84	0.000000	-1.562500	90	3837	36	25	20	41.960785	0.855000	0.000000
2012/01/14 8:43	84	0.000000	-1.562500	94	4919	47	19	19	91.764709	0.855000	0.000000
2012/01/14 8:43	84	0.000000	-1.562500	12	5264	57	43	17	34.901962	0.680000	0.000000
2012/01/14 8:43	84	-10.937500	-1.562500	91	4245	61	46	16	20.392157	0.800000	-0.781250
2012/01/14 8:43	83	-1.562500	-1.562500	43	3315	63	36	16	17.647058	0.075000	1.562500
2012/01/14 8:43	83	3.906250	-1.562500	34	3327	64	37	16	17.647058	0.680000	5.468750
2012/01/14 8:43	83	0.781250	-1.562500	33	3338	63	37	17	17.647058	0.640000	0.781250
2012/01/14 8:43	83	0.781250	-1.562500	33	3338	63	37	18	17.647058	0.740000	3.125000
2012/01/14 8:43	84	2.343750	-1.562500	37	3315	63	36	18	19.215687	0.760000	1.562500
2012/01/14 8:43	84	2.343750	-1.562500	52	3228	62	30	18	25.098040	0.585000	-4.687500
2012/01/14 8:43	84	-4.687500	-1.562500	58	3150	60	37	18	16.078432	0.055000	-0.781250
2012/01/14 8:43	84	0.781250	-1.562500	37	2906	56	35	18	16.078432	0.640000	-5.468750

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:43	84	-3.906250	-1.562500	63	2716	51	27	19	21.960785	0.625000	-3.125000
2012/01/14 8:43	84	-3.906250	-1.562500	65	2632	50	27	19	20.000000	0.660000	-8.593750
2012/01/14 8:43	84	-1.562500	-1.562500	54	2553	49	28	19	19.215687	0.740000	-0.781250
2012/01/14 8:44	84	0.781250	-1.562500	15	3201	46	36	19	16.470589	0.680000	0.000000
2012/01/14 8:44	84	0.000000	-1.562500	22	2923	43	38	19	9.803922	0.000000	0.000000
2012/01/14 8:44	84	0.000000	-1.562500	17	2660	39	36	20	14.509804	0.095000	3.125000
2012/01/14 8:44	84	0.000000	-1.562500	15	2122	37	28	21	19.607843	0.585000	-6.250000
2012/01/14 8:44	84	-3.906250	-1.562500	47	2071	39	27	21	16.862745	0.680000	2.343750
2012/01/14 8:44	84	-3.125000	-1.562500	62	2146	41	27	21	16.470589	0.075000	-1.562500
2012/01/14 8:44	84	1.562500	-1.562500	45	2179	42	28	21	17.647058	0.680000	3.125000
2012/01/14 8:44	84	-0.781250	-1.562500	58	2247	42	27	21	16.470589	0.370000	-2.343750
2012/01/14 8:44	84	0.000000	-1.562500	40	2239	42	30	21	16.078432	0.700000	-3.125000
2012/01/14 8:44	84	0.000000	-1.562500	63	2260	43	25	21	20.392157	0.680000	-3.125000
2012/01/14 8:44	84	-0.781250	-1.562500	55	2311	44	27	21	18.431372	0.115000	0.000000
2012/01/14 8:44	84	-3.906250	-1.562500	38	2250	43	31	21	15.294118	0.720000	-3.125000
2012/01/14 8:44	84	-1.562500	-1.562500	48	2206	41	26	21	21.568628	0.625000	-3.125000
2012/01/14 8:44	84	-1.562500	-1.562500	79	2268	43	21	21	27.058823	0.720000	-4.687500
2012/01/14 8:44	84	-1.562500	-1.562500	87	2353	44	20	21	10.196078	0.000000	0.000000
2012/01/14 8:44	84	-6.250000	-1.562500	89	3075	43	23	20	28.235294	0.095000	-5.468750
2012/01/14 8:44	86	-0.781250	-1.562500	45	3201	46	31	19	17.254902	0.055000	0.000000
2012/01/14 8:44	86	3.906250	-1.562500	42	3042	44	32	19	20.000000	0.640000	-3.125000
2012/01/14 8:44	84	-0.781250	-1.562500	36	2981	43	36	19	16.078432	0.095000	-1.562500
2012/01/14 8:44	84	0.000000	-1.562500	17	2723	40	37	19	11.372549	0.000000	0.781250
2012/01/14 8:44	84	-2.343750	-1.562500	15	2484	36	36	20	10.196078	0.000000	0.000000
2012/01/14 8:44	84	0.000000	-1.562500	19	2268	33	34	21	10.196078	0.000000	0.000000
2012/01/14 8:44	84	1.562500	-1.562500	37	2234	32	31	22	20.000000	0.835000	1.562500
2012/01/14 8:44	84	-2.343750	-1.562500	62	2543	36	29	23	17.254902	0.740000	-3.125000
2012/01/14 8:44	84	-7.812500	-1.562500	21	2668	39	36	23	11.372549	0.760000	-19.531250
2012/01/14 8:44	84	0.000000	-1.562500	22	2600	38	36	23	10.196078	0.660000	0.000000
2012/01/14 8:44	84	0.000000	-1.562500	20	2536	37	35	23	13.333333	0.820000	0.000000
2012/01/14 8:44	84	-7.812500	-1.562500	20	2543	36	36	24	9.803922	0.015000	0.000000
2012/01/14 8:44	84	0.000000	-1.562500	24	2423	35	34	25	12.941176	0.015000	3.906250
2012/01/14 8:44	84	-2.343750	-1.562500	24	2358	34	33	26	12.941176	0.680000	-5.468750
2012/01/14 8:45	84	-5.468750	-1.562500	25	2281	33	33	26	12.549020	0.625000	-7.031250
2012/01/14 8:45	84	-7.812500	-1.562500	25	2153	31	32	26	12.549020	0.565000	-8.593750
2012/01/14 8:45	84	-7.031250	-1.562500	26	2040	29	31	26	12.549020	0.740000	-8.593750
2012/01/14 8:45	84	0.000000	-1.562500	97	2902	28	37	26	9.803922	0.055000	0.000000
2012/01/14 8:45	84	2.343750	-1.562500	30	2583	25	35	27	12.941176	0.780000	-6.250000
2012/01/14 8:45	84	-5.468750	-1.562500	22	2390	24	34	27	12.941176	0.740000	-6.250000
2012/01/14 8:45	84	-4.687500	-1.562500	25	2260	22	33	27	12.941176	0.425000	-3.906250
2012/01/14 8:45	84	-3.906250	-1.562500	25	2160	21	34	27	9.803922	0.055000	0.000000
2012/01/14 8:45	84	0.000000	-1.562500	19	1773	17	30	27	10.196078	0.000000	0.000000
2012/01/14 8:45	84	0.000000	-1.562500	25	969	14	16	28	9.803922	0.680000	-3.906250
2012/01/14 8:45	84	0.781250	-1.562500	29	1044	12	10	28	9.803922	0.625000	-6.250000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:45	84	-3.125000	-1.562500	31	1026	7	10	28	9.803922	0.075000	-2.343750
2012/01/14 8:45	84	-3.125000	-1.562500	30	1010	3	10	28	9.803922	0.115000	-3.906250
2012/01/14 8:45	84	-2.343750	-1.562500	30	970	0	10	28	9.803922	0.660000	-3.906250
2012/01/14 8:45	84	-5.468750	-1.562500	30	848	0	10	28	9.803922	0.095000	-3.906250
2012/01/14 8:45	84	-4.687500	-1.562500	30	852	0	10	29	9.803922	0.095000	-4.687500
2012/01/14 8:45	84	-3.906250	-1.562500	33	811	0	7	29	9.803922	0.640000	-3.125000
2012/01/14 8:45	84	-3.906250	-1.562500	29	800	0	8	29	9.803922	0.445000	-6.250000
2012/01/14 8:45	84	-6.250000	-1.562500	30	815	0	8	29	9.803922	0.095000	-4.687500
2012/01/14 8:45	84	-3.125000	-1.562500	32	806	0	7	29	9.803922	0.660000	-3.125000
2012/01/14 8:45	84	-4.687500	-1.562500	29	814	0	8	30	9.803922	0.075000	-3.906250
2012/01/14 8:45	84	-3.125000	-1.562500	30	800	0	7	30	9.803922	0.605000	-2.343750
2012/01/14 8:45	84	0.000000	-1.562500	70	2104	0	28	30	18.431372	0.290000	0.781250
2012/01/14 8:45	84	-0.781250	-1.562500	75	1870	10	23	29	21.176470	0.700000	-0.781250
2012/01/14 8:45	84	-1.562500	-1.562500	70	3426	21	32	28	10.196078	0.035000	0.000000
2012/01/14 8:45	84	0.000000	-1.562500	51	2503	23	29	28	18.823530	0.740000	0.781250
2012/01/14 8:45	83	-2.343750	-1.562500	48	2830	26	31	27	25.098040	0.640000	1.562500
2012/01/14 8:45	83	0.781250	-1.562500	70	3487	33	31	26	25.490196	0.605000	-2.343750
2012/01/14 8:45	83	0.000000	-1.562500	15	2723	37	32	26	19.215687	0.075000	3.906250
2012/01/14 8:45	84	3.125000	-1.562500	68	2693	39	30	25	18.431372	0.095000	-1.562500
2012/01/14 8:46	84	-0.781250	-1.562500	59	2806	41	28	25	22.352942	0.270000	0.000000
2012/01/14 8:46	84	-4.687500	-1.562500	55	2986	43	31	25	20.392157	0.250000	0.781250
2012/01/14 8:46	84	0.000000	-1.562500	15	2945	43	38	24	10.196078	0.000000	0.000000
2012/01/14 8:46	84	3.906250	-1.562500	25	2720	39	35	25	14.509804	0.760000	-7.812500
2012/01/14 8:46	84	-10.156250	-1.562500	30	2614	38	33	25	17.254902	0.055000	0.781250
2012/01/14 8:46	84	-2.343750	-1.562500	60	2716	39	36	26	10.588235	0.465000	0.781250
2012/01/14 8:46	84	-4.687500	-1.562500	47	2084	40	28	26	16.470589	0.760000	0.000000
2012/01/14 8:46	84	1.562500	-1.562500	32	1990	38	29	26	14.117647	0.700000	-6.250000
2012/01/14 8:46	84	-7.812500	-1.562500	36	1954	37	28	26	15.294118	0.135000	-0.781250
2012/01/14 8:46	84	-0.781250	-1.562500	59	1960	37	25	26	17.647058	0.525000	-0.781250
2012/01/14 8:46	84	-4.687500	-1.562500	57	2028	38	25	26	18.431372	0.465000	-6.250000
2012/01/14 8:46	84	-3.125000	-1.562500	58	2084	39	26	26	17.254902	0.700000	-3.906250
2012/01/14 8:46	84	-0.781250	-1.562500	53	2113	40	27	26	17.254902	0.230000	-0.781250
2012/01/14 8:46	84	-3.906250	-1.562500	50	2106	40	27	26	14.901960	0.800000	-3.906250
2012/01/14 8:46	84	-12.500000	-1.562500	32	2079	39	31	26	12.549020	0.760000	-14.062500
2012/01/14 8:46	84	-7.031250	-1.562500	42	2021	38	28	26	16.078432	0.370000	-4.687500
2012/01/14 8:46	84	-2.343750	-1.562500	21	1953	37	31	26	30.980392	0.875000	0.000000
2012/01/14 8:46	84	0.000000	-1.562500	17	2234	33	34	27	9.803922	0.000000	0.000000
2012/01/14 8:46	84	1.562500	-1.562500	29	2308	26	36	27	9.803922	0.000000	0.000000
2012/01/14 8:46	84	-1.562500	-1.562500	87	2720	25	24	27	29.803921	0.720000	0.000000
2012/01/14 8:46	84	0.781250	-1.562500	83	3671	34	28	27	31.764706	0.760000	-2.343750
2012/01/14 8:46	84	-7.812500	-1.562500	15	3770	42	43	25	21.960785	0.835000	0.000000
2012/01/14 8:46	84	-0.781250	-1.562500	39	2932	42	35	24	10.588235	0.135000	0.000000
2012/01/14 8:46	84	0.000000	-1.562500	17	2693	39	37	24	9.803922	0.000000	0.000000
2012/01/14 8:46	84	0.000000	-1.562500	17	2417	36	35	25	9.803922	0.000000	0.000000

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:46	84	0.000000	-1.562500	17	2045	30	33	26	9.803922	0.000000	0.000000
2012/01/14 8:46	84	0.000000	-1.562500	61	2325	26	35	26	10.196078	0.000000	0.781250
2012/01/14 8:46	84	0.000000	-1.562500	17	2292	22	34	27	9.803922	0.000000	0.000000
2012/01/14 8:46	84	0.000000	-1.562500	20	1863	18	31	27	10.588235	0.000000	0.000000
2012/01/14 8:46	84	3.906250	-1.562500	39	1614	15	25	28	15.294118	0.720000	0.781250
2012/01/14 8:47	84	2.343750	-1.562500	49	1717	15	23	28	20.784313	0.700000	-1.562500
2012/01/14 8:47	84	-3.906250	-1.562500	75	2333	22	23	28	25.098040	0.740000	-2.343750
2012/01/14 8:47	84	-2.343750	-1.562500	31	2668	26	36	28	10.196078	0.135000	0.000000
2012/01/14 8:47	84	0.000000	-1.562500	27	2216	22	32	27	14.509804	0.760000	-1.562500
2012/01/14 8:47	84	3.125000	-1.562500	54	2305	22	28	28	16.862745	0.310000	-3.125000
2012/01/14 8:47	84	-4.687500	-1.562500	35	2432	23	32	28	15.686275	0.760000	-3.125000
2012/01/14 8:47	84	-1.562500	-1.562500	33	2384	23	32	28	14.901960	0.740000	-4.687500
2012/01/14 8:47	84	-7.031250	-1.562500	30	2313	22	32	28	14.509804	0.700000	-0.781250
2012/01/14 8:47	84	-5.468750	-1.562500	22	2136	21	33	28	12.549020	0.035000	4.687500
2012/01/14 8:47	84	-2.343750	-1.562500	28	1966	19	31	28	10.196078	0.760000	0.781250
2012/01/14 8:47	84	-3.125000	-1.562500	40	1815	17	24	28	19.215687	0.330000	-0.781250
2012/01/14 8:47	84	-3.125000	-1.562500	59	2281	21	26	28	20.392157	0.155000	1.562500
2012/01/14 8:47	84	0.000000	-1.562500	66	2798	26	28	28	22.745098	0.135000	-1.562500
2012/01/14 8:47	84	-3.906250	-1.562500	61	3304	32	32	27	20.784313	0.800000	0.000000
2012/01/14 8:47	84	1.562500	-1.562500	70	2268	32	25	26	10.196078	0.015000	0.000000
2012/01/14 8:47	84	0.000000	-1.562500	25	2113	30	31	26	13.725491	0.800000	0.781250
2012/01/14 8:47	84	0.000000	-1.562500	45	2015	28	26	27	18.039215	0.680000	-2.343750
2012/01/14 8:47	84	1.562500	-1.562500	59	2129	30	26	27	18.431372	0.720000	1.562500
2012/01/14 8:47	84	0.000000	-1.562500	56	2265	32	26	27	19.215687	0.700000	1.562500
2012/01/14 8:47	84	-3.125000	-1.562500	56	2375	34	27	27	19.607843	0.270000	0.781250
2012/01/14 8:47	84	-3.906250	-1.562500	60	2491	35	28	26	20.000000	0.605000	-5.468750
2012/01/14 8:47	84	-1.562500	-1.562500	57	2607	37	28	26	20.000000	0.680000	-2.343750
2012/01/14 8:47	84	-7.031250	-1.562500	55	2723	39	36	26	9.803922	0.720000	0.000000
2012/01/14 8:47	84	-1.562500	-1.562500	40	1982	38	28	26	14.901960	0.700000	-5.468750
2012/01/14 8:47	84	-4.687500	-1.562500	38	1939	36	28	26	14.901960	0.445000	-7.812500
2012/01/14 8:47	84	-10.156250	-1.562500	39	1854	35	27	26	15.686275	0.720000	-2.343750
2012/01/14 8:47	84	-3.125000	-1.562500	58	1858	36	24	26	18.039215	0.625000	-4.687500
2012/01/14 8:47	86	-7.812500	-1.562500	42	1892	36	27	27	16.862745	0.055000	-3.906250
2012/01/14 8:47	86	-3.906250	-1.562500	53	1865	35	24	27	19.215687	0.740000	-3.125000
2012/01/14 8:47	86	-7.031250	-1.562500	71	1924	37	22	27	20.392157	0.640000	-7.031250
2012/01/14 8:48	86	-10.156250	-1.562500	67	2017	38	23	26	16.470589	0.135000	-1.562500
2012/01/14 8:48	86	-5.468750	-1.562500	45	2015	38	27	26	15.686275	0.740000	-5.468750
2012/01/14 8:48	86	-3.906250	-1.562500	43	1972	37	27	26	15.686275	0.390000	-8.593750
2012/01/14 8:48	86	-5.468750	-1.562500	50	1956	37	26	26	17.254902	0.740000	-4.687500
2012/01/14 8:48	86	-3.125000	-1.562500	53	1970	37	26	26	16.862745	0.760000	-4.687500
2012/01/14 8:48	86	-9.375000	-1.562500	40	1949	37	30	26	11.764706	0.835000	-15.625000
2012/01/14 8:48	86	-14.843750	-1.562500	34	1832	35	27	27	14.901960	0.035000	-3.906250
2012/01/14 8:48	86	4.687500	-1.562500	42	1818	34	26	27	15.294118	0.350000	0.000000
2012/01/14 8:48	86	0.781250	-1.562500	47	1837	35	25	27	16.078432	0.680000	-2.343750

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:48	86	-3.906250	-1.562500	46	1858	35	26	28	15.686275	0.135000	0.000000
2012/01/14 8:48	86	-0.781250	-1.562500	47	1890	35	26	28	16.470589	0.195000	1.562500
2012/01/14 8:48	86	-2.343750	-1.562500	23	1879	35	31	28	10.980392	0.855000	-10.156250
2012/01/14 8:48	86	-17.968750	-1.562500	19	1770	34	31	28	9.803922	0.015000	-14.843750
2012/01/14 8:48	86	-10.937500	-1.562500	20	1614	31	29	28	9.803922	0.035000	-5.468750
2012/01/14 8:48	86	-0.781250	-1.562500	20	1460	28	28	29	9.803922	0.035000	4.687500
2012/01/14 8:48	86	8.593750	-1.562500	28	1080	23	11	29	9.803922	0.835000	2.343750
2012/01/14 8:48	86	-1.562500	-1.562500	29	959	18	10	30	9.803922	0.740000	-7.031250
2012/01/14 8:48	86	-11.718750	-1.562500	30	875	14	10	30	9.803922	0.055000	-11.718750
2012/01/14 8:48	86	-10.156250	-1.562500	32	851	8	10	31	9.803922	0.055000	-8.593750
2012/01/14 8:48	86	-7.031250	-2.343750	30	858	1	10	31	9.803922	0.545000	-5.468750
2012/01/14 8:48	86	-7.031250	-2.343750	30	803	0	7	31	9.803922	0.095000	-6.250000
2012/01/14 8:48	86	-5.468750	-2.343750	34	805	0	8	31	9.803922	0.565000	-7.812500
2012/01/14 8:48	86	-8.593750	-2.343750	30	803	0	8	32	9.803922	0.075000	-7.031250
2012/01/14 8:48	86	-5.468750	-2.343750	29	807	0	8	32	9.803922	0.330000	-3.906250
2012/01/14 8:48	86	-5.468750	-2.343750	33	803	0	9	32	9.803922	0.075000	-7.031250
2012/01/14 8:48	86	-5.468750	-2.343750	28	800	0	9	32	9.803922	0.075000	-3.906250
2012/01/14 8:48	86	-1.562500	-2.343750	32	804	0	7	33	9.803922	0.680000	-1.562500
2012/01/14 8:48	86	-3.125000	-2.343750	28	807	0	8	33	9.803922	0.095000	-4.687500
2012/01/14 8:49	86	-3.125000	-2.343750	29	803	0	8	33	9.803922	0.095000	-1.562500
2012/01/14 8:49	86	0.000000	-2.343750	32	805	0	9	34	9.803922	0.585000	-2.343750
2012/01/14 8:49	84	-3.125000	-2.343750	28	806	0	9	34	9.803922	0.095000	-1.562500
2012/01/14 8:49	84	0.000000	-2.343750	28	811	0	9	34	9.803922	0.660000	-2.343750
2012/01/14 8:49	84	-3.125000	-2.343750	30	803	0	8	34	9.803922	0.075000	-1.562500
2012/01/14 8:49	84	0.000000	-2.343750	32	803	0	7	34	9.803922	0.700000	0.781250
2012/01/14 8:49	84	-0.781250	-2.343750	28	804	0	7	34	9.803922	0.895000	0.000000
2012/01/14 8:49	84	2.343750	-2.343750	60	1238	1	20	34	16.470589	0.780000	3.906250
2012/01/14 8:49	84	0.000000	-2.343750	65	1423	8	21	34	16.862745	0.585000	-2.343750
2012/01/14 8:49	84	-4.687500	-3.125000	59	2432	15	28	34	20.392157	0.585000	-3.906250
2012/01/14 8:49	84	-1.562500	-3.125000	17	2818	20	36	33	14.901960	0.055000	2.343750
2012/01/14 8:49	84	-0.781250	-3.125000	42	2049	19	27	32	17.254902	0.585000	-1.562500
2012/01/14 8:49	84	0.781250	-3.125000	52	2276	22	28	32	18.431372	0.760000	1.562500
2012/01/14 8:49	84	0.000000	-3.125000	67	2639	25	27	31	22.352942	0.740000	-3.125000
2012/01/14 8:49	84	0.000000	-2.343750	63	3139	29	31	31	23.137255	0.485000	-3.125000
2012/01/14 8:49	84	2.343750	-2.343750	58	3583	34	34	30	23.529411	0.680000	-0.781250
2012/01/14 8:49	84	0.000000	-2.343750	14	2977	36	35	29	21.568628	0.605000	-2.343750
2012/01/14 8:49	84	-1.562500	-2.343750	55	2632	38	29	28	19.215687	0.230000	0.000000
2012/01/14 8:49	84	-3.906250	-2.343750	55	2697	38	30	28	19.607843	0.680000	-4.687500
2012/01/14 8:49	84	-8.593750	-2.343750	34	2716	39	34	28	13.725491	0.780000	0.000000
2012/01/14 8:49	84	0.000000	-2.343750	17	2447	36	35	28	10.196078	0.000000	0.000000
2012/01/14 8:49	84	0.000000	-2.343750	25	965	27	16	29	9.803922	0.800000	-3.906250
2012/01/14 8:49	84	-8.593750	-2.343750	31	904	16	10	30	9.803922	0.605000	-14.062500
2012/01/14 8:49	84	-14.062500	-2.343750	34	828	4	10	31	9.803922	0.290000	-9.375000
2012/01/14 8:49	84	-10.937500	-2.343750	34	864	0	10	31	9.803922	0.075000	-10.156250

DateTime	ect[°C]	shrtft1[%]	longft1[%]	map[kPa]	rpm[rpm]	vss[km/h]	sparkadv[°]	iat[°C]	tp[%]	o2s11[V]	shrtft11[%]
2012/01/14 8:49	84	-8.593750	-3.125000	86	1756	0	25	31	20.000000	0.820000	3.125000
2012/01/14 8:49	84	3.906250	-3.125000	61	2106	5	25	31	13.333333	0.055000	2.343750
2012/01/14 8:49	84	-1.562500	-3.125000	41	1663	9	25	31	14.509804	0.700000	-3.125000
2012/01/14 8:49	84	2.343750	-3.125000	51	2206	13	29	31	17.254902	0.230000	2.343750
2012/01/14 8:49	84	-0.781250	-3.125000	35	2727	17	36	31	10.980392	0.780000	-13.281250
2012/01/14 8:50	84	0.000000	-3.125000	17	2387	15	34	31	11.764706	0.000000	1.562500
2012/01/14 8:50	84	-1.562500	-3.125000	40	2278	15	30	31	18.823530	0.135000	3.906250
2012/01/14 8:50	84	-3.125000	-3.125000	52	2867	18	31	31	20.392157	0.115000	2.343750
2012/01/14 8:50	84	-0.781250	-3.125000	47	3462	22	36	31	20.784313	0.760000	0.000000
2012/01/14 8:50	84	0.000000	-3.125000	14	2826	24	31	30	17.647058	0.195000	3.125000
2012/01/14 8:50	84	-0.781250	-3.125000	47	2546	24	31	30	18.039215	0.700000	0.781250
2012/01/14 8:50	84	-4.687500	-3.125000	45	2614	25	31	30	18.039215	0.760000	-3.906250
2012/01/14 8:50	84	-11.718750	-3.125000	17	2420	24	35	30	10.196078	0.000000	0.000000
2012/01/14 8:50	84	0.000000	-3.125000	18	1867	18	28	30	9.803922	0.000000	-3.125000
2012/01/14 8:50	84	-4.687500	-3.125000	34	970	10	10	31	9.803922	0.720000	-10.937500
2012/01/14 8:50	84	4.687500	-3.125000	47	1211	3	20	31	14.117647	0.680000	-3.906250
2012/01/14 8:50	84	-5.468750	-3.125000	35	1968	6	30	32	14.509804	0.095000	-4.687500
2012/01/14 8:50	84	-2.343750	-3.125000	47	2872	9	32	32	19.607843	0.700000	0.000000
2012/01/14 8:50	84	1.562500	-3.125000	66	1941	11	24	31	20.000000	0.660000	-3.125000
2012/01/14 8:50	84	-0.781250	-3.125000	53	2937	18	32	31	20.392157	0.740000	3.125000
2012/01/14 8:50	84	1.562500	-3.125000	43	3551	22	37	31	9.803922	0.055000	0.000000
2012/01/14 8:50	84	1.562500	-3.125000	30	2373	23	35	30	10.588235	0.035000	0.000000
2012/01/14 8:50	84	0.000000	-3.125000	35	2082	19	30	31	14.901960	0.155000	-3.125000
2012/01/14 8:50	84	-4.687500	-3.125000	35	2066	20	30	31	11.764706	0.820000	-9.375000
2012/01/14 8:50	84	-17.968750	-3.125000	25	1770	17	28	31	11.372549	0.075000	-10.156250
2012/01/14 8:50	84	-15.625000	-3.125000	25	1083	13	17	31	9.803922	0.055000	-10.156250
2012/01/14 8:50	84	-12.500000	-3.125000	34	880	8	10	32	9.803922	0.055000	-15.625000
2012/01/14 8:50	84	-1.562500	-3.125000	53	2184	4	30	32	10.196078	0.015000	0.000000
2012/01/14 8:50	84	-4.687500	-3.125000	35	2350	2	32	33	17.647058	0.075000	6.250000
2012/01/14 8:50	84	0.000000	-3.125000	20	1428	0	25	32	9.803922	0.410000	-1.562500
2012/01/14 8:50	84	-6.250000	-3.125000	28	863	0	10	33	10.196078	0.740000	-11.718750
2012/01/14 8:50	84	-15.625000	-3.125000	30	802	0	12	33	9.803922	0.035000	-15.625000
2012/01/14 8:50	84	-14.062500	-3.125000	30	799	0	11	33	9.803922	0.035000	-12.500000