Time (sec)	Latitude (deg)	Longitude (deg)	Vehicle speed (MPH)	Ambient air temperature (°F)	Time since engine start (sec)	Battery Charge Mode	Battery Voltage (V)	Vehicle Battery - State of Charge (%)	Vehicle Battery - Current (A)	Start/Stop Inhibit - Battery State of Charge too Low for Start/Stop	Start/Stop Inhibit - Battery Voltage too Low for Start/Stop	Start/Stop Inhibit - Battery Temp too Low for Auto Stop	Start/Stop Inhibit - Battery Voltage too Low for Auto Restart	Start/Stop Inhibit - Battery Voltage too Low for Cold Cranking Capabiliy	Trip Duration (min)	Trip Distance (miles)
# StartTime = 12/27/2022 08:28:36.7211 AM Truck was parked from 12/23/22 thru 12/26/22 Trip to work																
1.144		-74.05698	0.0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
1.771		-74.05698	0.0	26.6	98	0	13.3	60	4	1	0	1	1	0	0.02	0.00
29.897		-74.05698	0.0	26.6	126	0	13.3	60	3	1	0	1	1	0	0.50	0.00
124.937		-74.06582	0.0	28.4	222	0	13.8	60	5	1	0	1	1	0	2.08	0.49
310.914		-74.08795	32.9	28.4	404	0	14.8	61	4	1	0	1	1	0	5.18	1.68
904.945		-74.12723	0.0	26.6	998	0	14.9	62	3	1	0	1	1	0	15.08	5.97
1093.017		-74.12722	0.0	26.6	1139	0	12.4	62	-7	1	0	1	1	0	18.09	5.97
# StartTime = 12/27/2022 05:05:41.9365 PM Home from work After 8 1/2 hours parked																
1.447		-74.12719	0.0	33.8	141	0	12.8	61	4	1	0	0	1	0	0.02	0.00
136.026		-74.12747	25.5	33.8	274	0	14.8	62	11	1	0	0	1	0	2.26	0.43
370.683		-74.11619	29.8	32	505	0	14.7	63	10	1	0	0	0	0	6.17	1.72
640.033		-74.08437	23.6	33.8	776	0	14.8	64	8	1	0	0	0	0	10.66	4.38
999.805		-74.05694	0.0	33.8	1077	0	12.4	64	-11	0	0	0	0	0	16.05	6.27
# StartTime = 12/28/2022 08:29:40.9362 AM To work after 14 hous parked																
8.432		-74.05682	0.0	30.2	244	0	14.9	63	4	1	0	0	0	0	0.14	0.00
376.814		-74.08846	41.0	28.4	617	0	14.9	64	3	1	0	0	0	0	6.27	1.94
1083.616		-74.12714	0.0	28.4	1275	0	12.4	64	-7	1	0	0	0	0	17.86	5.97
# StartTime = 12/28/2022 05:08:26.9286 PM Home from work After 8 1/2 hours parked, Ambient rise seems to increase SOC +3% ?																
0.902		-74.1272	0.0	42.8	617	0	14.8	67	6	1	0	0	0	0	0.01	0.00
301.438		-74.11515	30.4	41	1003	0	14.9	68	5	1	0	0	0	0	5.02	1.61
858.837		-74.05694	0.0	41	1560	0	14.9	69	3	1	0	0	0	0	14.31	6.08
918.649		-74.05691	0.0	41	1581	0	12.4	68	-7	0	0	0	0	0	15.18	6.08
# StartTime = 12/29/2022 08:34:58.8791 AM To work after 14 hous parked, SOC dropped 2%																
12.022		-74.057	0.0	28.4	0	0	13.5	66	4	0	0	0	0	0	0.00	0.00
12.984		-74.057	0.0	28.4	207	0	13.6	66	4	1	0	0	0	0	0.33	0.00
196.982		-74.07098	36.0	28.4	391	0	14.9	67	4	1	0	0	0	0	3.39	0.75
952.008		-74.12625	0.6	28.4	1151	0	14.9	67	12	1	0	0	0	0	15.98	5.90
952.970		-74.12625	0.0	28.4	1151	0	14.9	68	3	1	0	0	0	0	15.99	5.90
1075.037		-74.12715	0.0	28.4	1213	0	12.2	68	-14	0	0	0	0	0	17.41	5.96
# StartTime = 12/29/2022 05:10:35.7560 PM Home from work After 8 1/2 hours parked, SOC went down 7%, w/ ambient rise of 14 degrees																
0.798		-74.12721	0	42.8	91	0	12.8	61	4	1	0	0	0	0	0.01	0.00
96.400		-74.12758	4.349598	42.8	182	0	12.9	62	3	1	0	0	0	0	1.60	0.06
294.604		-74.12734	29.20445	39.2	380	0	14.8	63	12	1	0	0	0	0	4.90	1.06
528.740		-74.09769	67.10809	42.8	614	0	14.8	64	8	1	0	0	0	0	8.80	3.07
870.802		-74.06656	0	41	954	0	14.8	65	6	1	0	0	0	0	14.51	5.56
1056.220		-74.05692	0	41	1085	0	12.4	65	-10	1	0	0	0	0	17.00	6.08
# StartTime = 12/29/2022 06:44:24.7872 PM Trip to post office, SOC went down 1%, In 1 hour, A/S/S not operational																
1.676		-74.04826	16.77702	37.4	153	0	14.6	64	9	1	0	0	0	0	0.02	0.00
95.508		-74.04517	45.98147	37.4	245	0	14.6	65	8	1	0	0	0	0	1.59	0.69
436.715		-74.03218	0	37.4	584	0	14.6	66	6	1	0	0	0	0	7.28	1.58
880.282		-74.05698	0	35.6	969	0	12.4	66	-12	1	0	0	0	0	14.04	3.61
# StartTime = 12/30/2022 08:26:07.8432 AM To work after 13 hous parked, SOC rise of 3% overnight, A/S/S now operational @ 69% event recorded, then disabled by switch																
1.865		-74.05695	0	33.8	74	0	13.1	69	4	0	0	0	0	0	0.03	0.00
24.468		-74.05695	0	33.8	87	0	13.1	70	3	0	0	0	0	0	0.41	0.00
629.086		-74.09514	7.456454	32	697	0	14.9	70	4	0	0	0	0	0	10.48	5.06
629.650		-74.09514	4.97097	32	697	0	14.1	70	-4	0	0	0	0	0	10.49	5.06
630.690		-74.09514	2.485485	32	697	0	13.1	70	-3	0	0	0	0	0	10.50	5.06
631.250		-74.09514	1.864114	32	703	0	13.5	70	6	0	0	0	0	0	10.51	5.06
756.292		-74.11475	5.592341	33.8	823	0	14.7	70	2	0	0	0	0	0	12.60	6.16
756.843		-74.11475	3.106856	33.8	829	0	13	70	-5	0	0	0	0	0	12.61	6.16
834.246	41.03061	-74.12538	28.58307	33.8	903	0	14.9	71	2	0	0	0	0	0	13.90	6.84
847.483	41.03029	-74.12579	0	33.8	918	0	13.1	71	-2	0	0	0	0	0	14.11	6.87
847.844	41.03029	-74.12579	0	33.8	918	0	12.4	71	-39	0	0	0	0	0	14.13	6.87
851.930	41.03029	-74.12579	0	33.8	918	0	12.1	71	-35	0	0	0	0	0	14.19	6.87
852.242	41.03029	-74.12579	0	33.8	918	0	12.1	70	-35	0	0	0	0	0	14.20	6.87
857.908	41.03029	-74.12579	0	33.8	927	0	11.9	70	-35	0	0	0	0	0	14.29	6.87
858.260	41.03029	-74.12579	0	33.8	927	0	9.5	70	-97	0	0	0	0	0	14.30	6.87
858.727	41.03029	-74.12579	0	33.8	927	0	9.5	70	-97	0	0	0	0	0	14.30	6.87
859.240	41.03028	-74.12579	0	33.8	927	0	12.7	70	32	0	0	0	0	0	14.32	6.87
860.695	41.03026	-74.12582	0	33.8	927	0	12.7	70	32	0	0	0	0	0	14.32	6.87
861.053	41.03025	-74.12584	4.349598	33.8	927	0	13.6	70	36	0	0	0	0	0	14.35	6.87
888.274	41.02769	-74.12527	3.106856	33.8	957	0	13.2	70	-5	0	0	0	0	0	14.79	7.05
888.281		-74.12527	0.621371	33.8	957	0	13.6	71	8	0	0	0	0	0	14.81	7.05
995.693		-74.12554	0	33.8	1062	0	14.9	70	3	0	0	0	0	0	16.58	7.38
996.050		-74.12554	0	33.8	1062	0	14.9	71	0	0	0	0	0	0	16.60	7.38
1067.124		-74.12718	0	33.8	1133	0	14.9	71	3	0	0	0	0	0	17.76	7.60
1067.466		-74.12718	0	33.8	1133	0	15	71	0	0	0	0	0	0	17.79	7.60
1056.339		-74.12718	0.621371	33.8	1125	0	14.8	71	6	0	0	0	0	0	17.60	7.60
1056.676		-74.12718	0	33.8	1125	0	14.4	71	0	0	0	0	0	0	17.61	7.60
1121.245		-74.12737	0	33.8	1142	0	12.3	70	-9	0	0	0	0	0	18.57	7.60
# StartTime = 12/30/2022 03:13:10.5250 PM Home from work After 6 1/2 hours parked, SOC went down 6%, w/ ambient rise of 29 degrees																
1.259		-74.12722	0	62.6	100	0	14.6	64	17	0	0	0	0	0	0.01	0.00
139.861		-74.12578	0	62.6	239	0	14.5	65	11	1	0	0	0	0	2.33	0.25
446.235		-74.10277	16.77702	59	546	0	14.6	66	7	1	0	0	0	0	7.43	2.19
824.644		-74.0889	31.06856	59	917	0	14.5	67	6	1	0	0	0	0	13.74	5.85

Time	Lat	Lon	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17
1174.57		-74.05698	0	59	1220	0	12.4	67	-12	1	0	0	0	0	18.90	7.64
# StartTime = 12/31/2022 04:08:59.5414 PM Trip out after 25 hours parked , no change in SOC																
1.769		-74.22896	16.77702	51.8	426	0	14.4	67	8	1	0	0	0	0	0.02	0.01
15.156		-74.23068	27.34033	51.8	436	0	14.3	68	8	1	0	0	0	0	0.25	0.10
375.187		-74.18295	57.78752	51.8	795	0	14.3	69	6	1	0	0	0	0	6.25	3.77
770.978		-74.09009	58.40889	51.8	1190	0	14.3	70	5	0	0	0	0	0	12.85	9.67
1238.791		-74.06392	34.17542	48.2	1660	0	14.3	71	5	0	0	0	0	0	20.65	15.40
1310.113		-74.05695	0	48.2	1722	0	12.4	71	-17	0	0	0	0	0	21.83	15.77
1329.09		-74.05701	0	48.2	1722	0	12.4	70	-10	0	0	0	0	0	22.02	15.77
1512.171		-74.05696	0	48.2	1722	0	12.3	70	-13	0	0	0	0	0	24.43	15.77
# StartTime = 01/10/2023 01:05:27.3008 PM																
1.794		-74.1272	0	42.8	83	0	12.9	61	4	1	0	0	1	0	0.02	0.00
181.778		-74.13111	26.09759	41	262	0	14.7	62	10	1	0	0	1	0	3.03	0.77
488.195		-74.13972	0	41	569	0	14.7	63	6	1	0	0	0	0	8.13	1.38
865.376		-74.12179	30.44719	41	947	0	14.8	64	6	1	0	0	0	0	14.42	3.08
1181.88		-74.12717	0	41	1211	0	12.5	64	-7	1	0	0	0	0	19.49	4.06
# StartTime = 01/10/2023 05:06:19.2754 PM																
1.047		-74.12721	0	39.2	102	0	14.6	63	9	1	0	0	0	0	0.02	0.00
184.083		-74.12556	9.941939	39.2	283	0	14.6	64	8	1	0	0	0	0	3.07	0.29
507.107		-74.11663	31.06856	39.2	607	0	14.6	65	6	1	0	0	0	0	8.45	1.40
939.788		-74.09518	27.34033	41	1037	0	14.6	66	5	1	0	0	0	0	15.67	2.62
1497.67		-74.06017	30.44719	41	1590	0	14.6	67	4	1	0	0	0	0	24.96	7.45
1536.278		-74.05692	2.485485	41	1637	0	14.2	67	12	1	0	0	0	0	25.60	7.63
1568.82		-74.05697	0	41	1642	0	12.4	66	-8	1	0	0	0	0	26.15	7.63
1773.866		-74.057	0	41	1642	0	12.4	66	-7	1	0	0	0	0	28.95	7.63
# StartTime = 01/11/2023 08:26:35.4370 AM																
0.746		-74.05693	0	33.8	99	0	13.1	71	3	0	0	0	0	0	0.01	0.00
594.748	41.03078	-74.09512	1.864114	32	689	0	13.8	71	7	0	0	0	0	0	9.91	5.06
601.972	41.03082	-74.09512	0.621371	32	696	0	13.1	71	1	0	0	0	0	0	10.02	5.07
602.35	41.03082	-74.09512	0	32	696	0	13	71	0	0	0	0	0	0	10.04	5.07
603.746	41.03082	-74.09512	0	32	696	0	12.5	71	-34	0	0	0	0	0	10.06	5.07
604.343	41.03082	-74.09512	0	32	696	0	12.4	71	-34	0	0	0	0	0	10.07	5.07
605.355	41.03082	-74.09512	0	32	696	0	12.3	71	-36	0	0	0	0	0	10.08	5.07
605.74	41.03082	-74.09512	0	32	703	0	12.2	71	-35	0	0	0	0	0	10.09	5.07
607.156	41.03082	-74.09512	0	32	703	0	12.1	71	-36	0	0	0	0	0	10.11	5.07
608.742	41.03082	-74.09512	0	32	703	0	12	71	-35	0	0	0	0	0	10.14	5.07
608.769	41.03082	-74.09512	0	32	703	0	12	71	-35	0	0	0	0	0	10.14	5.07
609.181	41.03082	-74.09512	0	32	703	0	10.3	71	-102	0	1	0	0	0	10.15	5.07
609.583	41.03082	-74.09512	0	32	703	0	10.3	71	-102	0	1	0	0	0	10.15	5.07
609.961	41.03082	-74.09512	0	32	703	0	15.1	71	49	0	0	0	0	0	10.16	5.07
614.775	41.03082	-74.09512	0	32	710	0	14.8	71	20	0	0	0	0	0	10.24	5.07
615.145	41.03083	-74.09512	3.106856	32	710	0	14.8	71	19	0	0	0	0	0	10.25	5.07
668.184	41.03194	-74.10256	34.17542	33.8	766	0	14.8	71	1	0	0	0	0	0	11.13	5.46
668.542		-74.10264	34.79679	33.8	766	0	14.8	72	2	0	0	0	0	0	11.14	5.47
968.632		-74.12718	2.485485	32	1064	0	13.1	72	2	0	0	0	0	0	16.14	7.60
969.152		-74.12718	1.242742	32	1064	0	14.9	72	11	0	0	0	0	0	16.15	7.60
1020.593		-74.12719	0	32	1116	0	14.8	72	2	0	0	0	0	0	16.99	7.60
1020.967		-74.12719	0	32	1116	0	12.6	72	-19	0	0	0	0	0	17.01	7.60
1022.955		-74.12719	0	32	1116	0	12.5	72	-16	0	0	0	0	0	17.04	7.60
1050.759		-74.12712	0	32	1117	0	12.3	72	-12	0	0	0	0	0	17.27	7.60
1069.758		-74.12721	0	32	1117	0	12.3	72	-12	0	0	0	0	0	17.27	7.60
# StartTime = 01/11/2023 05:08:56.6424 PM																
1.493		-74.12721	0	35.6	150	0	13.2	68	4	1	0	0	0	0	0.02	0.00
397.689		-74.12931	21.74799	35.6	541	0	14.9	69	4	1	0	0	0	0	6.62	0.95
1162.972		-74.05701	0	37.4	1287	0	12.3	69	-14	0	0	0	0	0	19.22	6.14
# StartTime = 01/12/2023 08:29:29.4626 AM																
1.784		-74.05699	0	37.4	83	0	13.2	65	3	1	0	0	0	0	0.02	0.00
36.088		-74.05703	0	37.4	113	0	13.1	66	3	1	0	0	0	0	0.60	0.01
73.081		-74.05805	26.09759	37.4	149	0	13.2	65	3	1	0	0	0	0	1.22	0.07
91.14		-74.06131	33.55404	37.4	172	0	13.2	66	3	1	0	0	0	0	1.52	0.24
684.081		-74.12227	6.835083	37.4	763	0	14.9	67	3	1	0	0	0	0	11.40	4.83
976.476		-74.1272	0	35.6	1013	0	12.4	67	-7	1	0	0	0	0	16.07	5.96