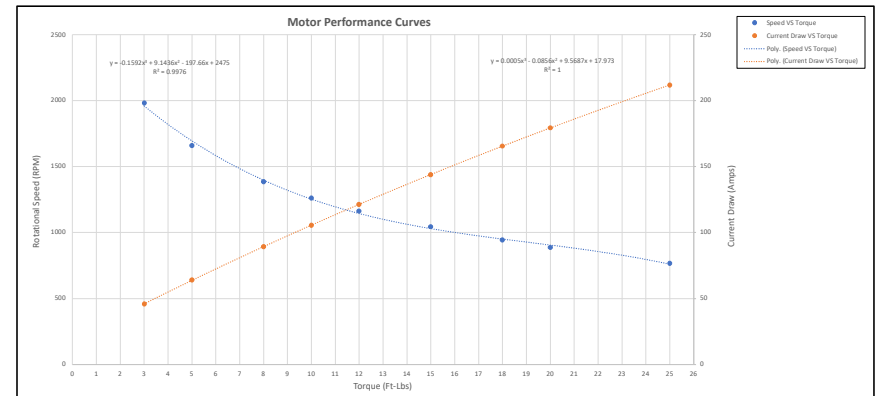
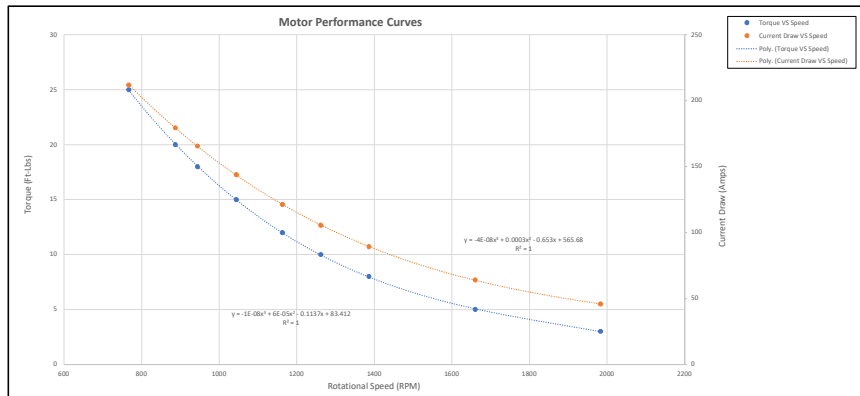
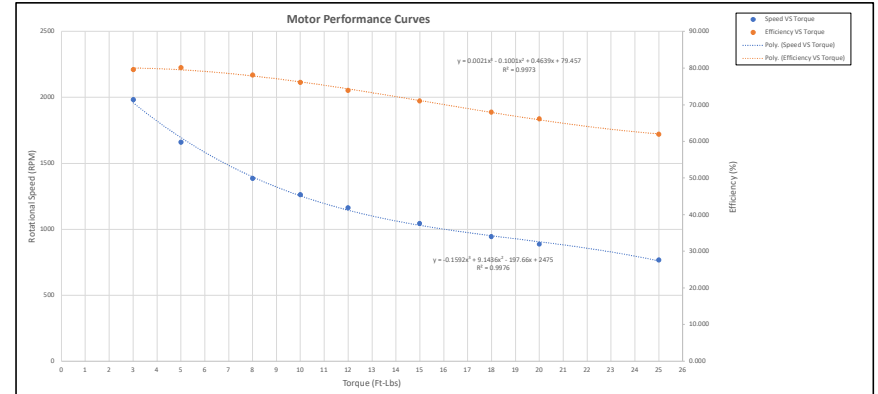
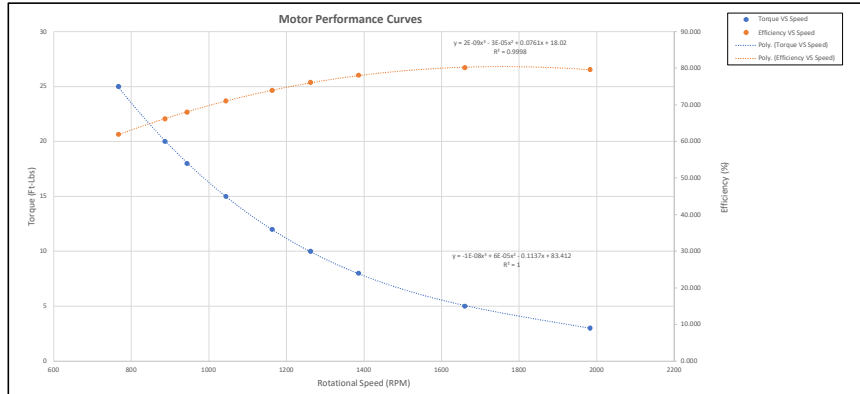


**Engineering Performance Test Report**

Performance Spec (PS) Number: 1

System Voltage (V): 24 (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3.01	1983	23.24	45.8	0	0	45.8	1.43	1.14	79.590
5	1600	22.96	64.4	0	0	64.4	1.97	1.58	80.130
8	1386	22.58	89.3	0	0	89.3	2.7	2.11	78.080
10	1262	22.34	105.5	0	0	105.5	3.16	2.4	76.120
11.99	1163	22.1	121.3	0	0	121.3	3.59	2.66	73.900
14.99	1044	21.76	143.8	0	0	143.8	4.19	2.98	71.020
17.99	944	21.43	165.6	0	0	165.6	4.76	3.23	68.000
20	887	21.22	179.4	0	0	179.4	5.1	3.38	66.170
25	767	21.19	211.9	0	0	211.9	5.89	3.65	61.930

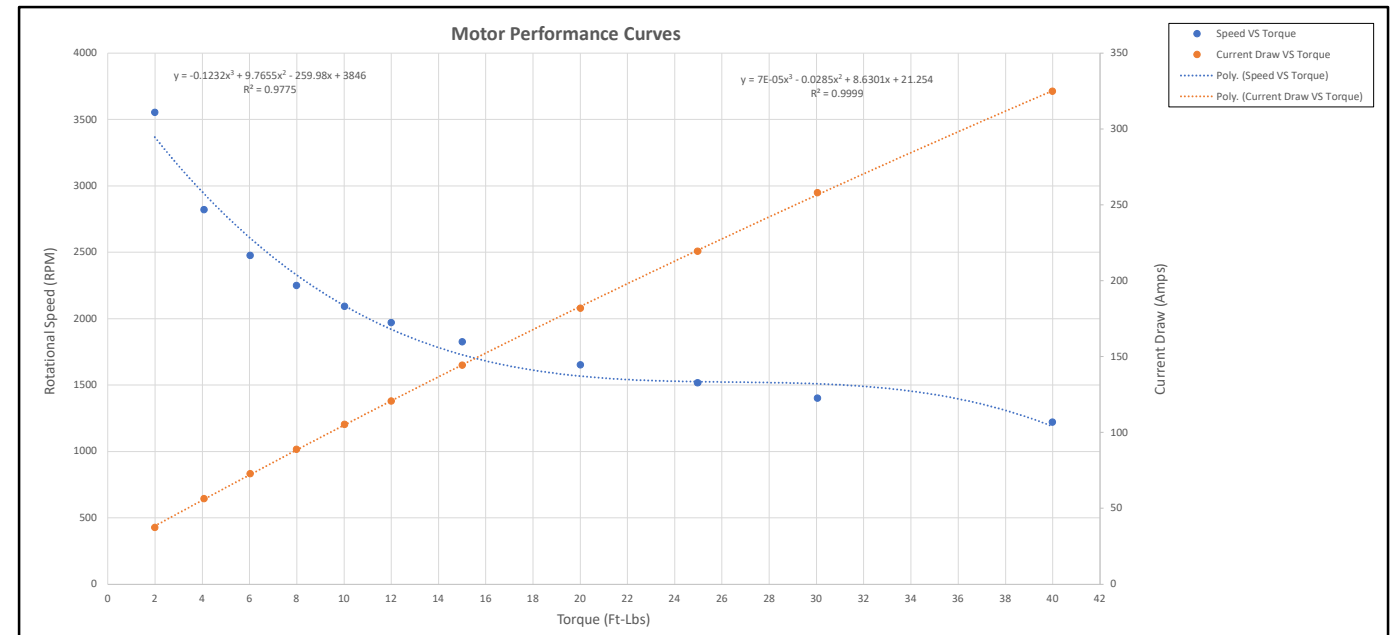
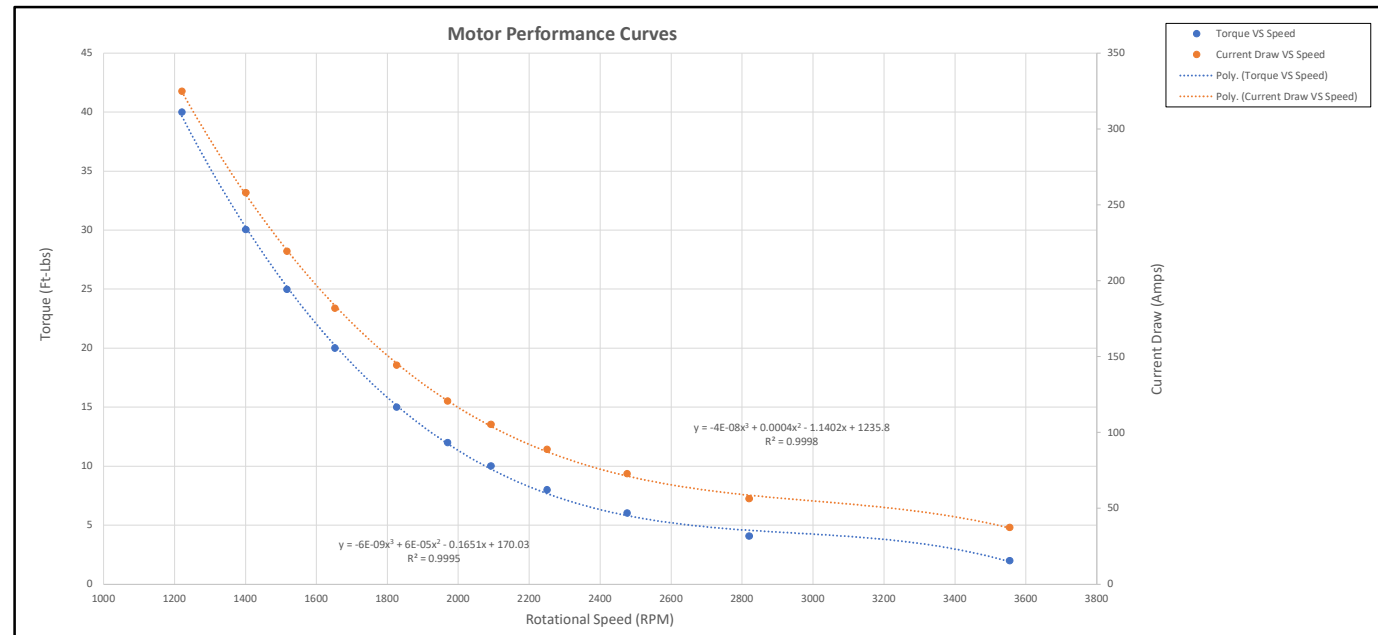
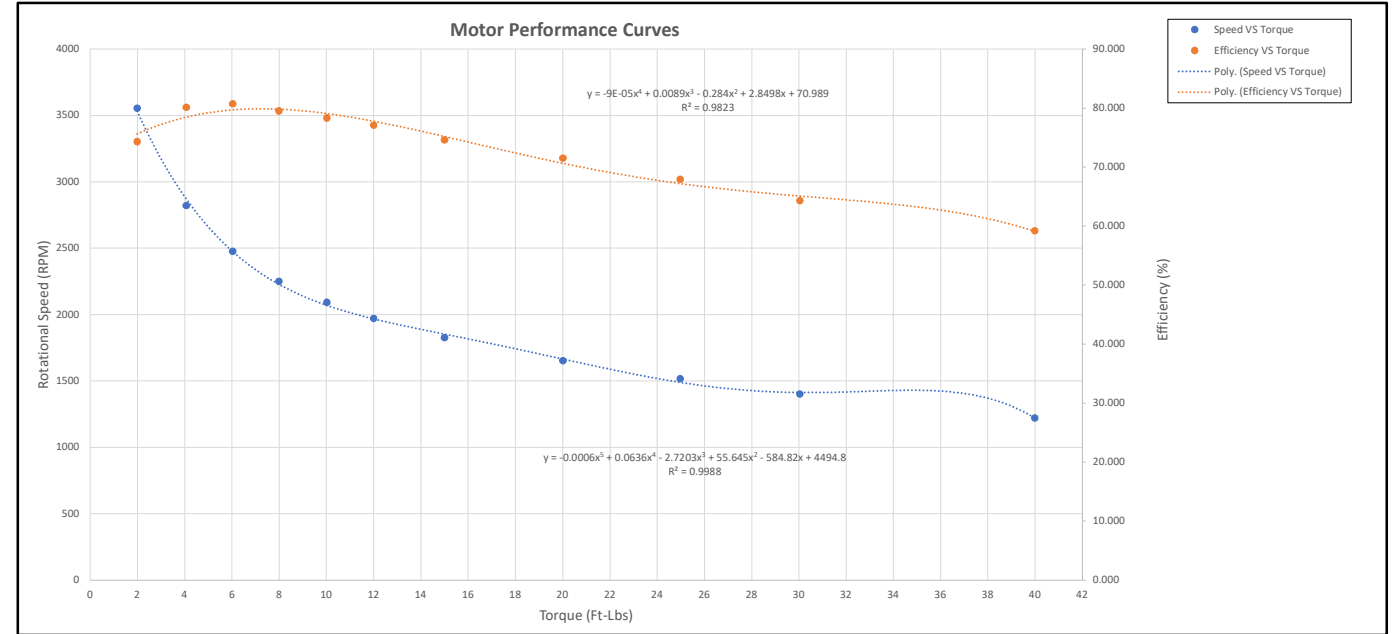
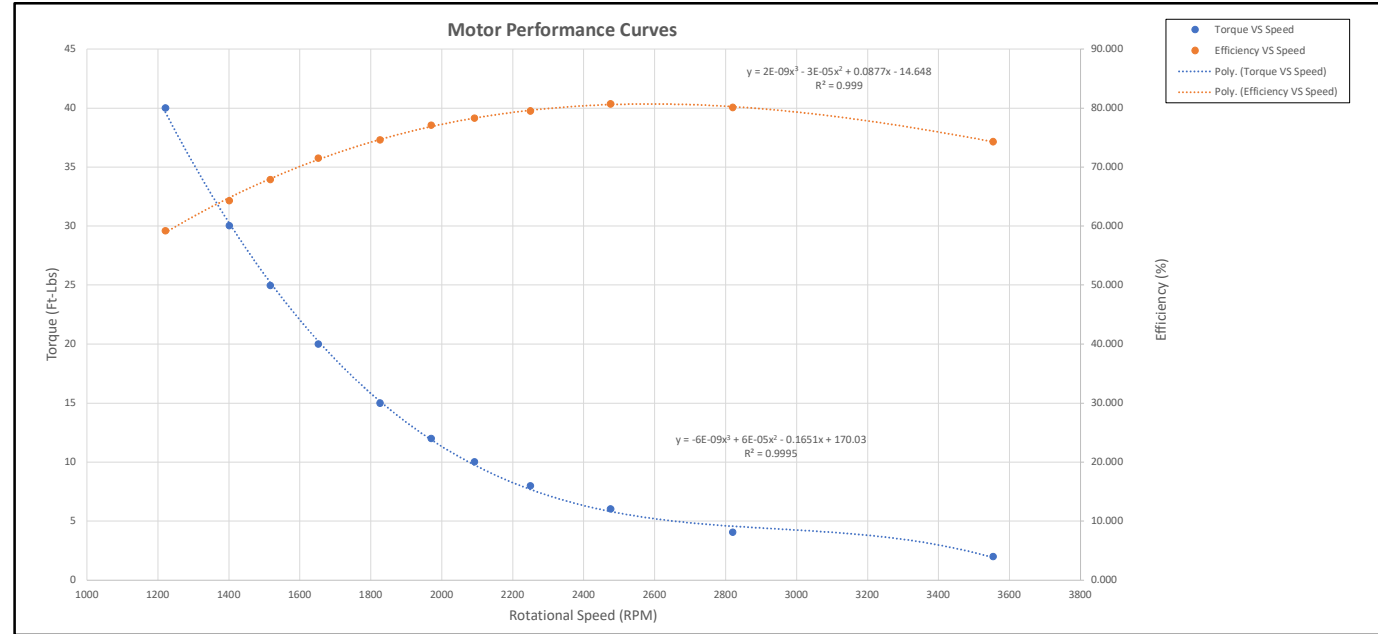


**Engineering Performance Test Report**

Performance Spec (PS) Number: 1

System Voltage [V]: 36 - (I \* 0.015)

Torque [Ft-Lbs]	Speed [RPM]	Amature Voltage [Volts]	Amature Current [Amps]	Field Voltage [Volts]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency [%]
1.99	3554	36.1	37.4	0	0	37.4	1.81	1.35	74.300
4.07	2820	36.1	56.3	0	0	56.3	2.73	2.18	80.100
6.03	2476	36.1	72.8	0	0	72.8	3.53	2.84	80.700
7.99	2250	36.1	88.9	0	0	88.9	4.3	3.42	79.500
10.02	2092	36.1	105.3	0	0	105.3	5.1	3.99	78.300
12	1970	36.1	120.7	0	0	120.7	5.84	4.5	77.100
15	1826	36.1	144.4	0	0	144.4	6.99	5.22	74.600
20.01	1652	36.1	181.9	0	0	181.9	8.8	6.29	71.500
24.97	1517	36.1	219.5	0	0	219.5	10.62	7.21	67.900
30.04	1401	36.1	258	0	0	258	12.47	8.01	64.300
39.99	1221	36.1	324.8	0	0	324.8	15.71	9.3	59.200

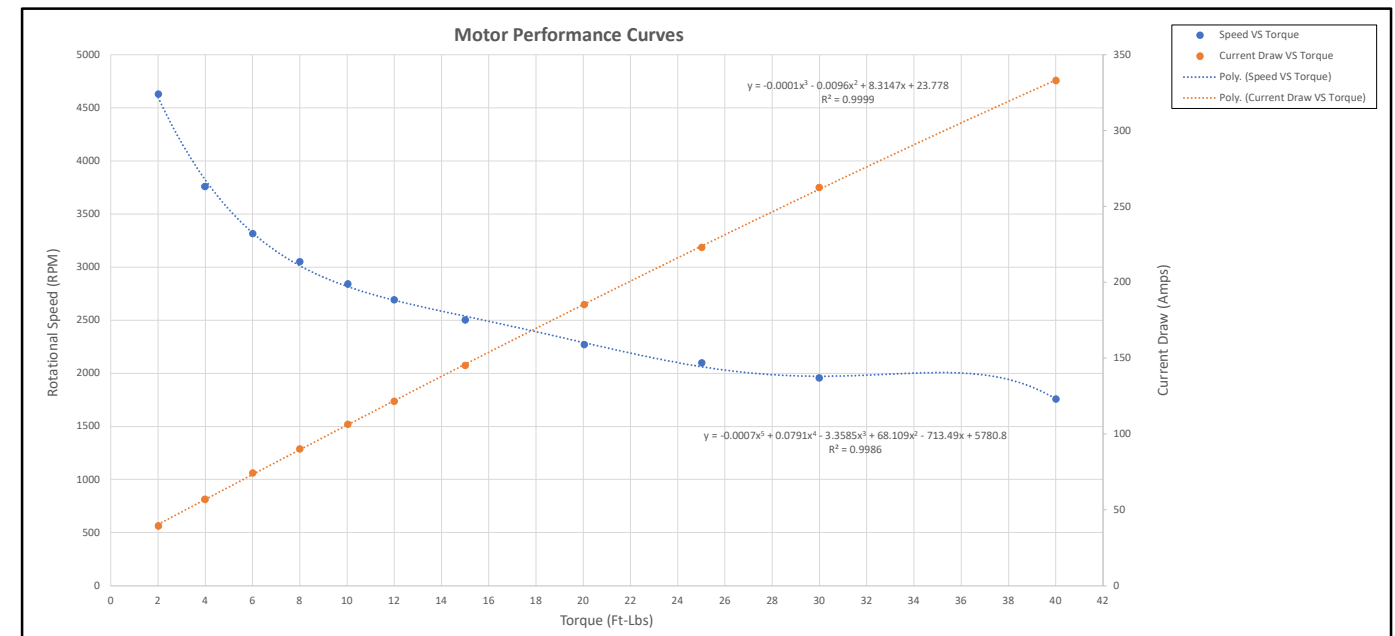
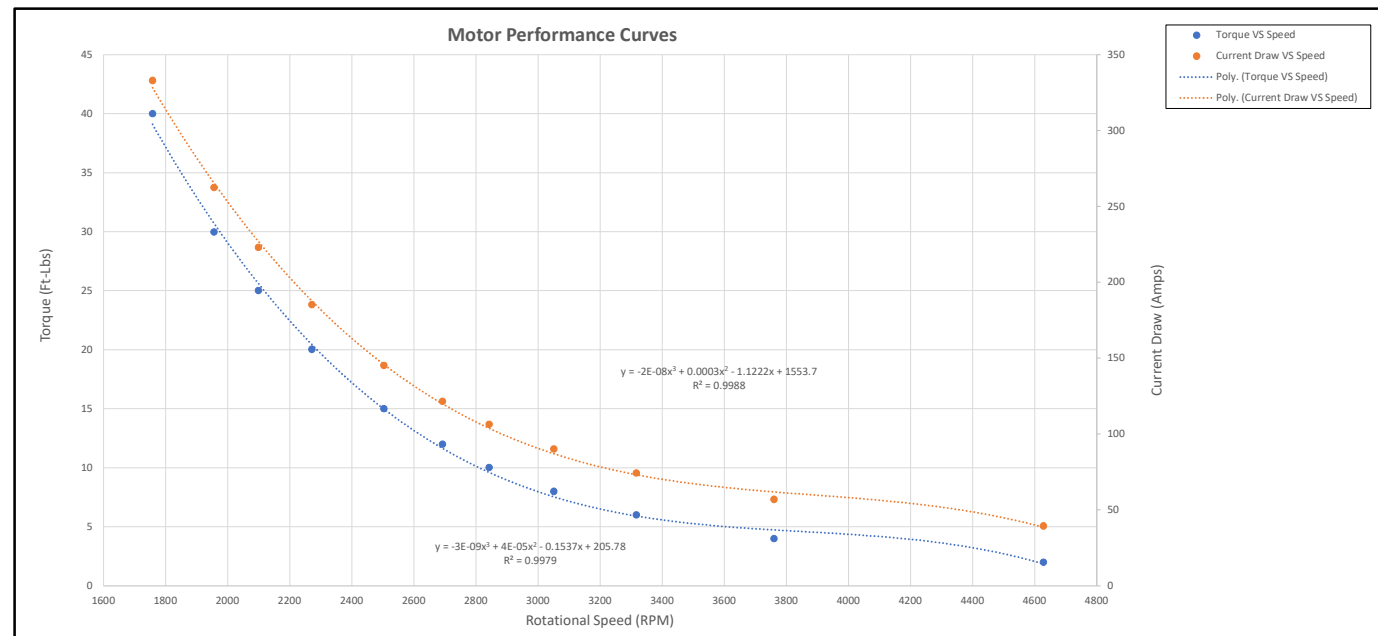
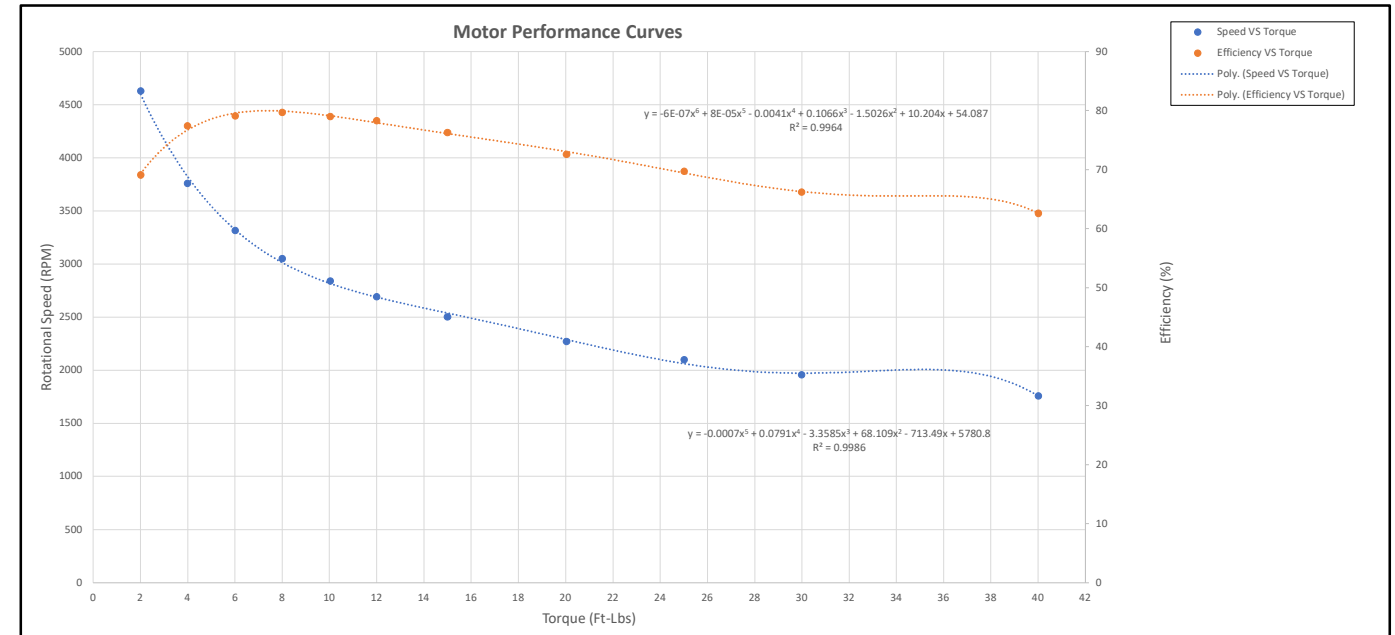
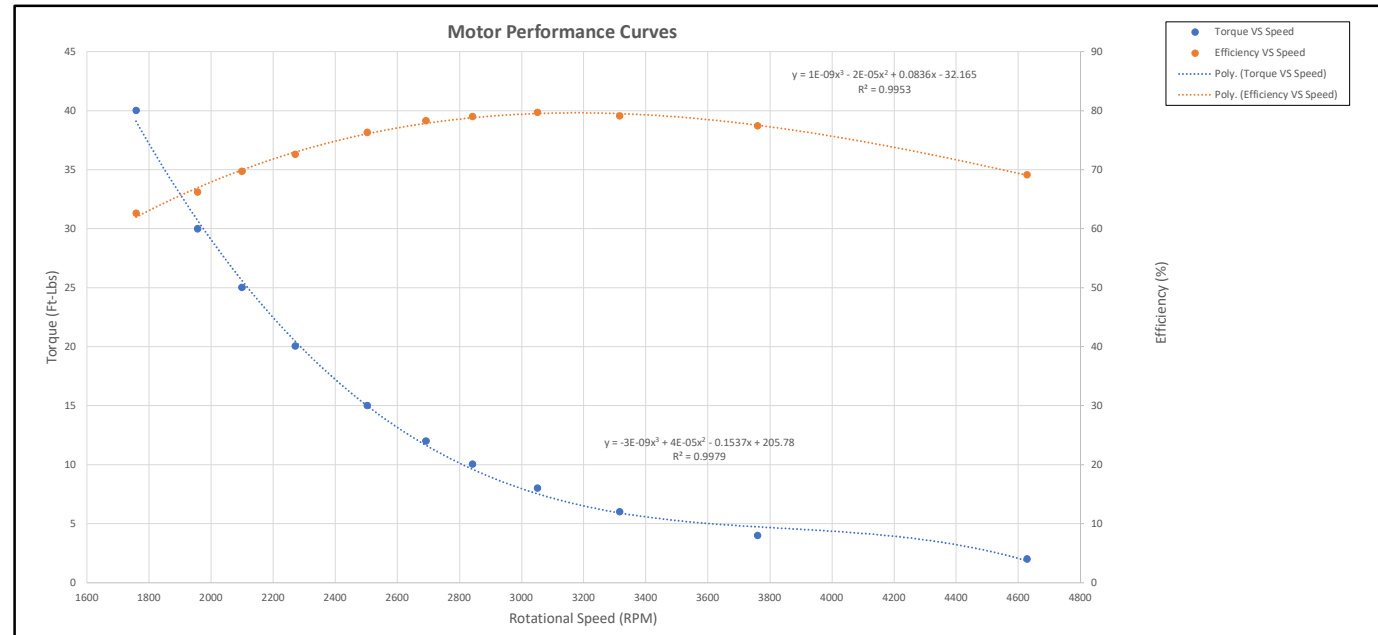


**Engineering Performance Test Report**

Performance Spec (PS) Number: 1

System Voltage [V]: 48 - (1 \* 0.015)

Torque [Ft-Lbs]	Speed [RPM]	Amature Voltage [Volts]	Amature Current [Amps]	Field Voltage [Volts]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency [%]
2.01	4628	48.2	39.5	0	0	39.5	2.56	1.77	69.1
3.99	3760	48.2	57	0	0	57	3.69	2.85	77.4
6.01	3316	48.2	74.3	0	0	74.3	4.8	3.8	79.1
8	3051	48.2	90.2	0	0	90.2	5.83	4.65	79.7
10.04	2842	48.2	106.5	0	0	106.5	6.88	5.44	79
12	2692	48.2	121.6	0	0	121.6	7.85	6.15	78.3
15	2503	48.1	145.3	0	0	145.3	9.37	7.15	76.3
20.04	2271	48	185.3	0	0	185.3	11.93	8.66	72.6
25.02	2099	48	223	0	0	223	14.35	10	69.7
29.99	1956	48	262.6	0	0	262.6	16.88	11.17	66.2
40.01	1758	47.9	333	0	0	333	21.4	13.4	62.6



**Engineering Performance Test Report**

Performance Spec (PS) Number: 1

System Voltage (V): 72 - (1 \* 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
8	4672	70.41	100.7	0	0	100.7	9.51	7.12	74.90
9.99	4410	70.15	117.2	0	0	117.2	11.02	8.39	76.13
11.99	4171.73	69.92	132.26	0	0	132.26	12.4	9.52	76.81
14.97	3872.66	69.54	154.62	0	0	154.62	14.41	11.04	76.57
18.01	3630.7	69.16	178.57	0	0	178.57	16.55	12.45	75.23
20	3500.17	68.92	194.15	0	0	194.15	17.94	13.93	74.31
22.01	3380.36	68.67	209.7	0	0	209.7	19.3	14.17	73.40
24.99	3237.89	68.31	231.86	0	0	231.86	21.23	15.41	72.58
28	3082.82	67.94	254.83	0	0	254.83	23.21	16.46	70.93
29.97	3005.58	67.71	268.15	0	0	268.15	24.34	17.46	70.49

