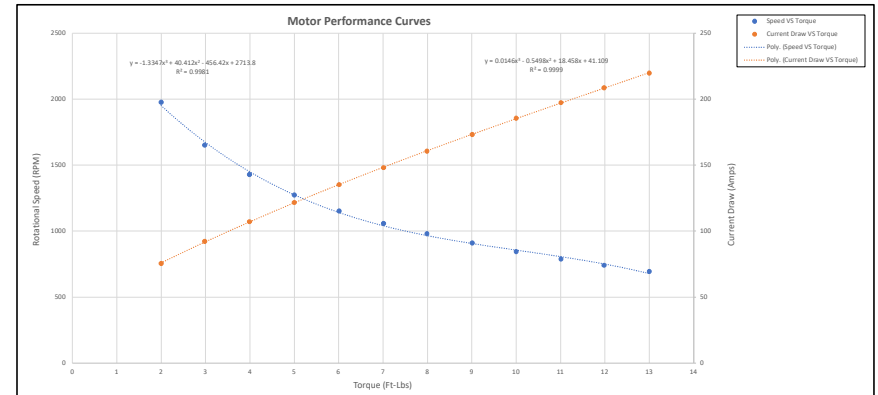
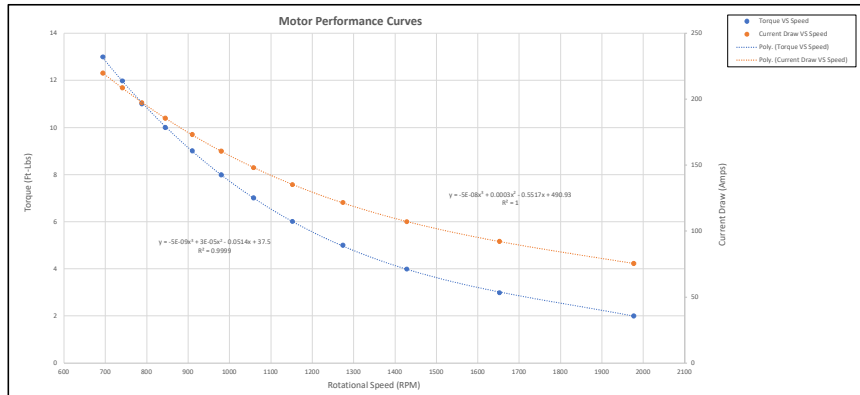
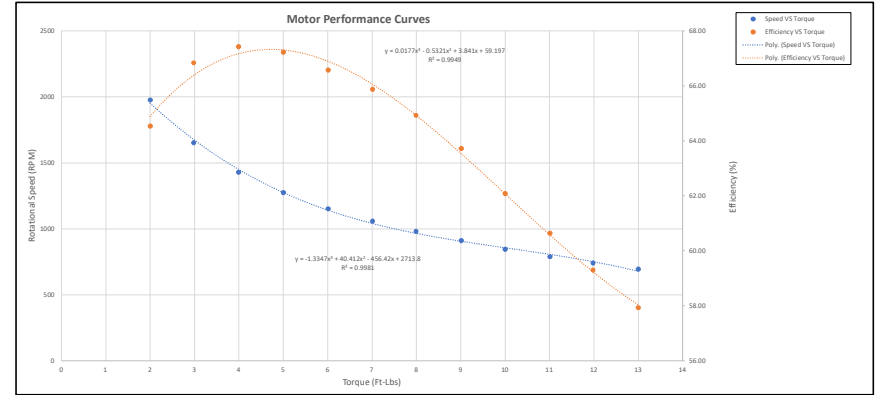
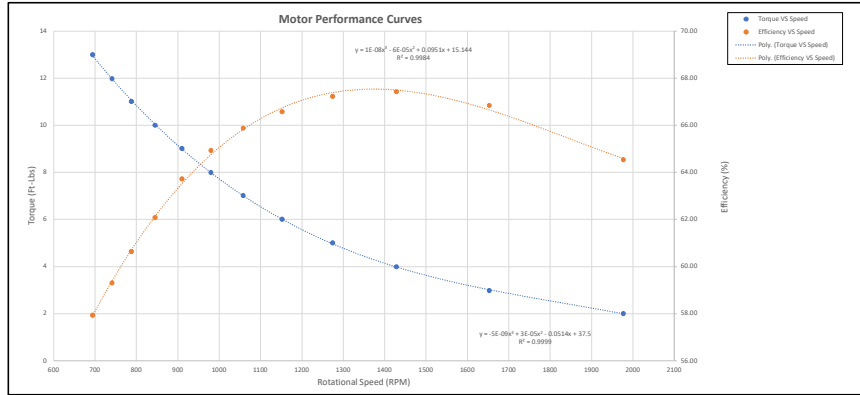


Engineering Performance Test Report

Performance Specification (PS): 42

System Voltage (V): 12.5 - (0 + 0.010)

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 (%)
2	1976.8	11.52	75.45	0	0	75.45	1.17	0.75	64.54
2.98	1652.51	11.36	92.19	0	0	92.19	1.4	0.94	66.84
3.99	1438.3	11.2	107.12	0	0	107.12	1.61	1.08	67.43
5	1274	11.06	121.7	0	0	121.7	1.8	1.21	67.23
6.01	1152	10.92	135.2	0	0	135.2	1.98	1.32	66.58
7.01	1058	10.79	148.1	0	0	148.1	2.14	1.41	65.88
7.99	980	10.67	160.6	0	0	160.6	2.3	1.49	64.93
9.01	910	10.54	173.3	0	0	173.3	2.45	1.56	63.72
10	845	10.42	185.6	0	0	185.6	2.59	1.61	62.08
11.01	788	10.29	197.4	0	0	197.4	2.72	1.65	60.64
11.98	741	10.19	208.7	0	0	208.7	2.85	1.69	59.30
13	694	10.07	219.8	0	0	219.8	2.97	1.72	57.93

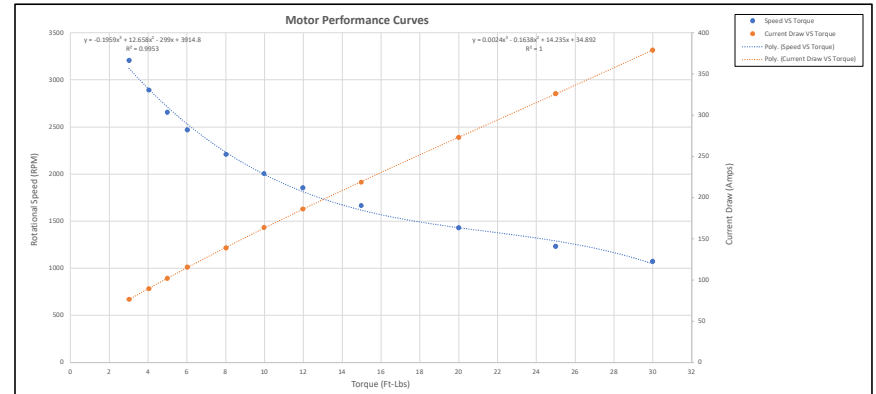
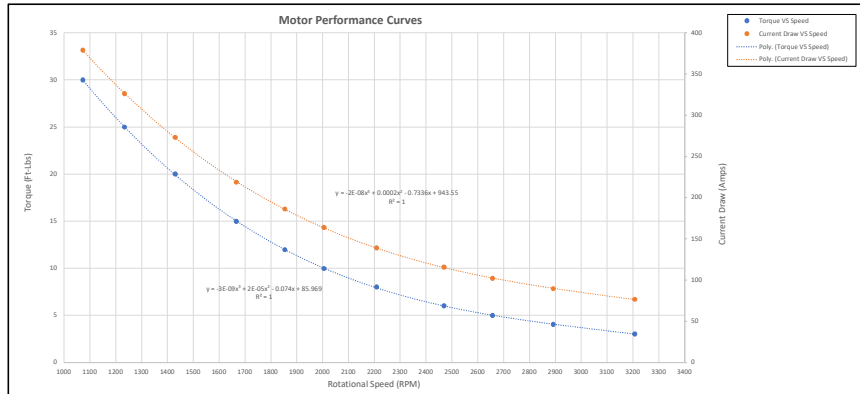
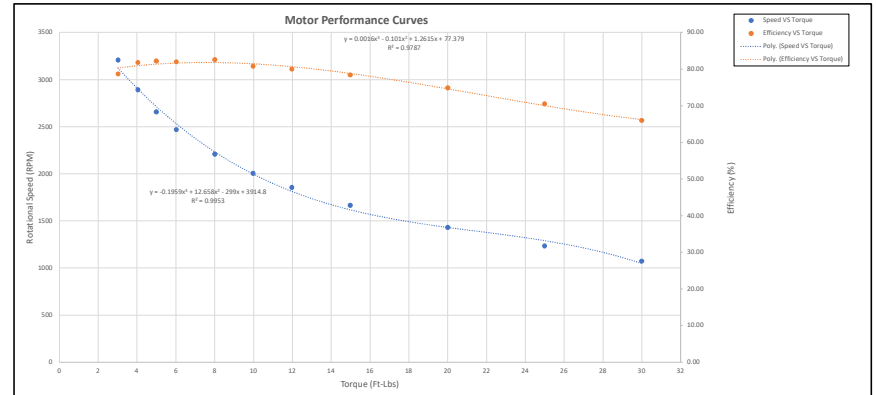
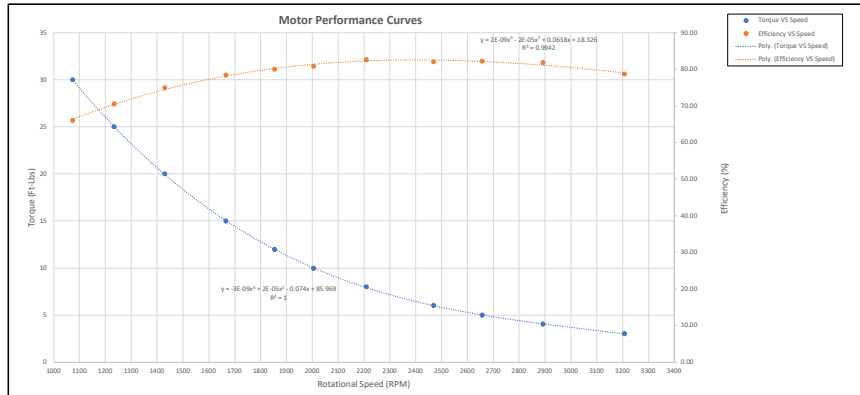


Engineering Performance Test Report

Performance Specification (PS): 42

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 (%)
3.02	3207	18.3	76.6	0	0	76.6	2.35	1.85	78.70
4.04	2892	19	89.5	0	0	89.5	2.72	2.21	81.90
4.99	2657	19.9	102	0	0	102	3.07	2.52	82.00
6.02	2469	20.7	115.7	0	0	115.7	3.45	2.83	82.00
8.01	2209	21.2	139	0	0	139	4.08	3.37	82.60
9.97	2005	21.5	163.7	0	0	163.7	4.71	3.81	80.80
11.97	1854	21.9	186.2	0	0	186.2	5.28	4.23	80.00
14.98	1666	22.2	218.7	0	0	218.7	6.06	4.75	78.40
18	1436	22.5	273.1	0	0	273.1	7.27	5.45	74.90
24.99	1224	22.6	326.2	0	0	326.2	8.32	5.87	70.50
29.99	1073	22.9	379	0	0	379	9.28	6.13	66.00

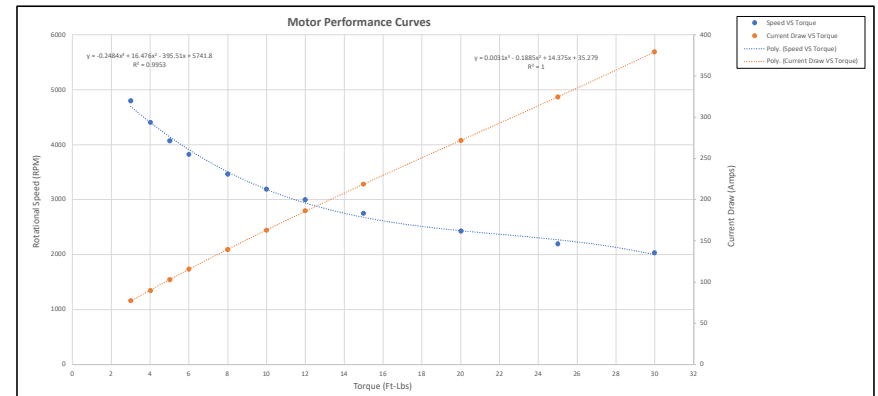
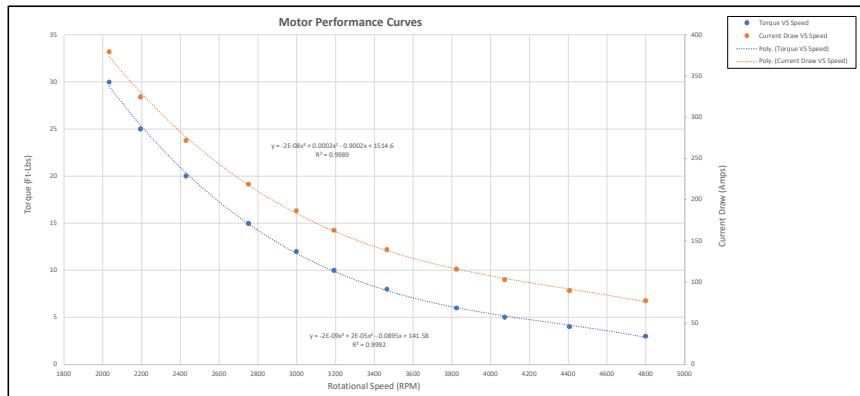
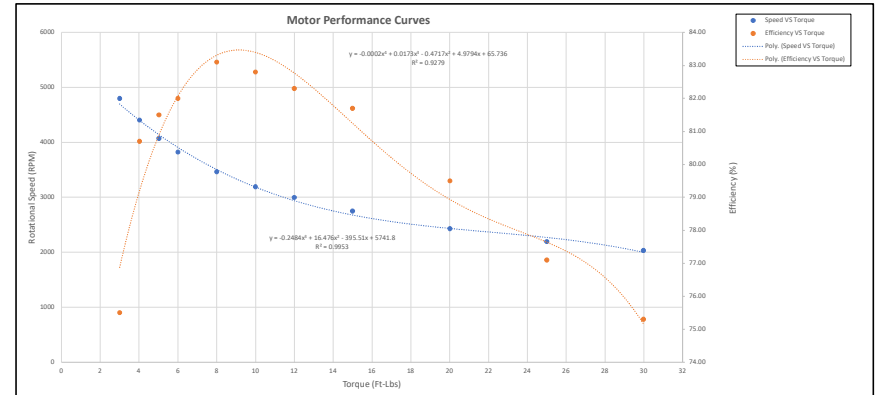
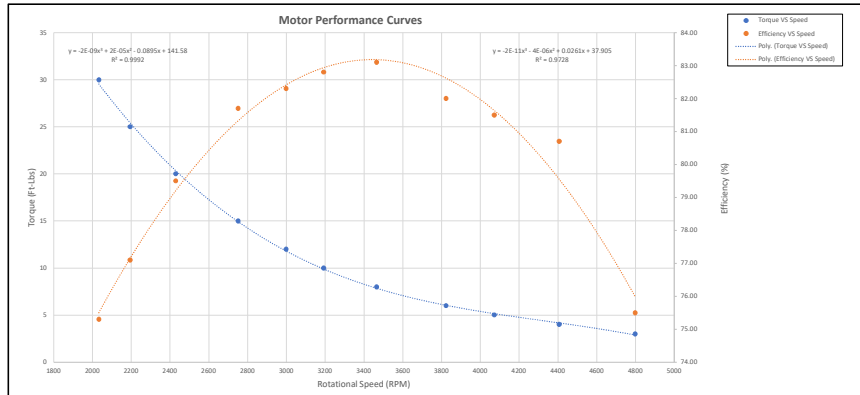


Engineering Performance Test Report

Performance Specification (PS): 42

System Voltage (V): 36 - (I² * 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	4798	35	77.4	0	0	77.4	3.63	2.74	75.50
4.02	4406	34.8	89.6	0	0	89.6	4.16	3.27	80.70
5.02	4072	34.6	102.9	0	0	102.9	4.77	3.89	81.50
6	3823	34.4	115.7	0	0	115.7	5.33	4.37	82.00
8	3465	34	139.4	0	0	139.4	6.35	5.28	83.10
9.99	3192	33.6	162.8	0	0	162.8	7.34	6.07	83.80
11.99	2998	33.3	186.5	0	0	186.5	8.32	6.84	82.30
14.99	2751	32.8	218.8	0	0	218.8	9.61	7.85	81.70
20.01	2429	32	271.8	0	0	271.8	11.64	9.25	79.50
25	2104	31.1	324.5	0	0	324.5	13.54	10.44	77.10
29.98	2033	30.3	379.3	0	0	379.3	15.41	11.61	75.30



Engineering Performance Test Report

Performance Specification (PS): 42

System Voltage (V): 48 - (I² * 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 (%)
5.03	5229	46.3	109.1	0	0	109.1	6.77	5.01	74.00
7.98	4581	45.7	148.6	0	0	148.6	9.09	6.96	76.48
9.99	4181	45.3	174.7	0	0	174.7	10.6	8.14	76.60
12.01	3973	44.9	197.7	0	0	197.7	11.89	9.09	76.80
15.02	3759	44.4	231.7	0	0	231.7	13.77	10.75	77.10
17.96	3495	43.9	265.4	0	0	265.4	15.61	11.95	76.50
19.91	3333	43.6	284.7	0	0	284.7	16.62	12.63	76.00

