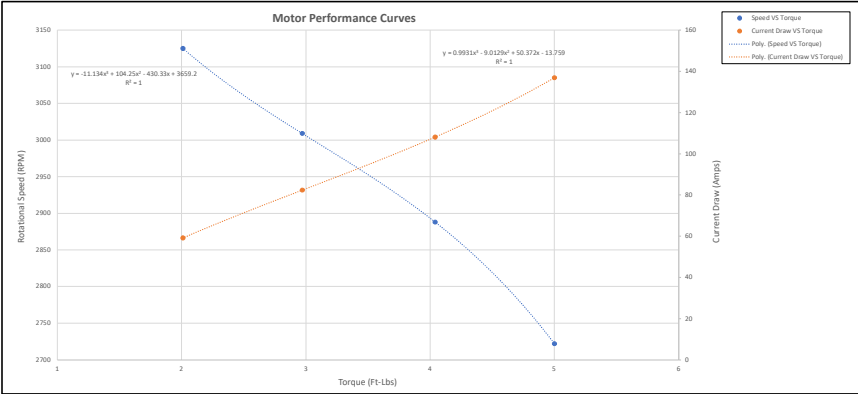
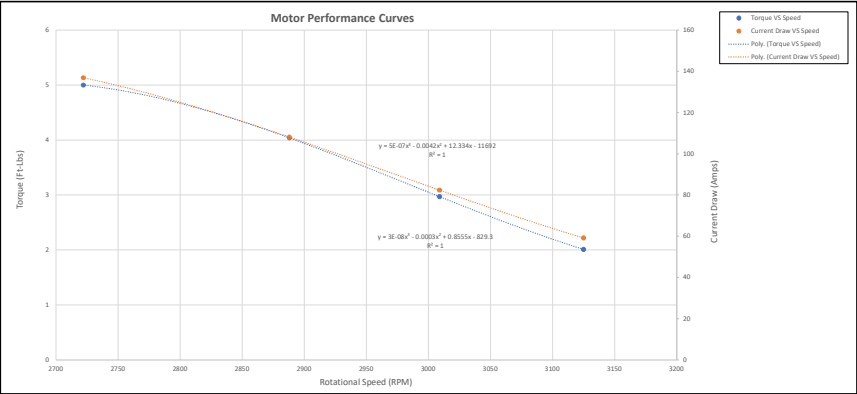
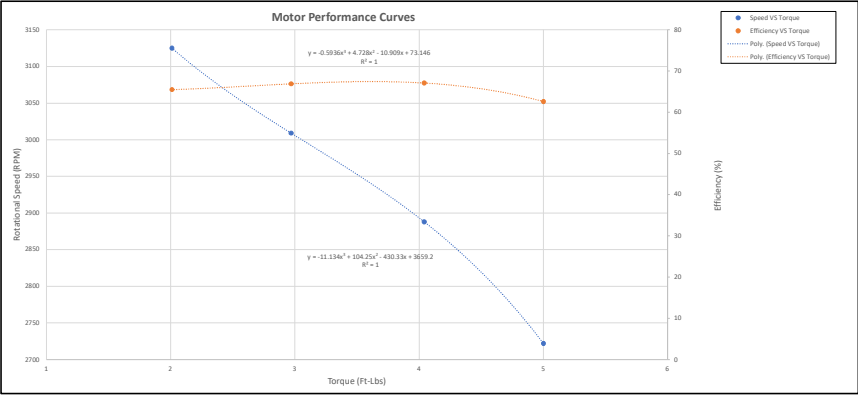
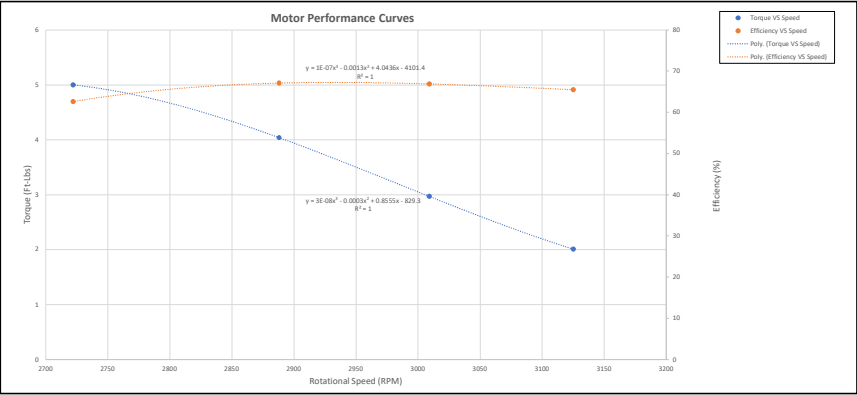


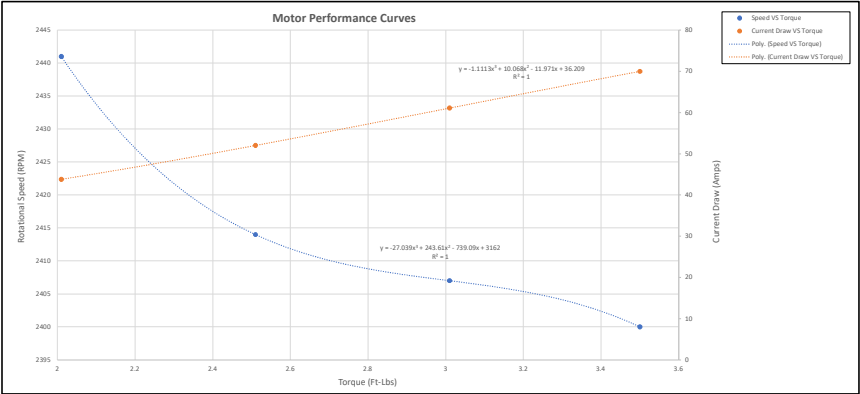
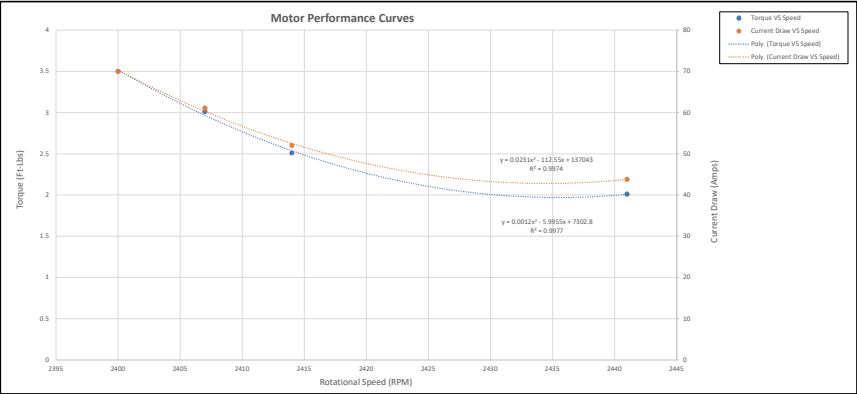
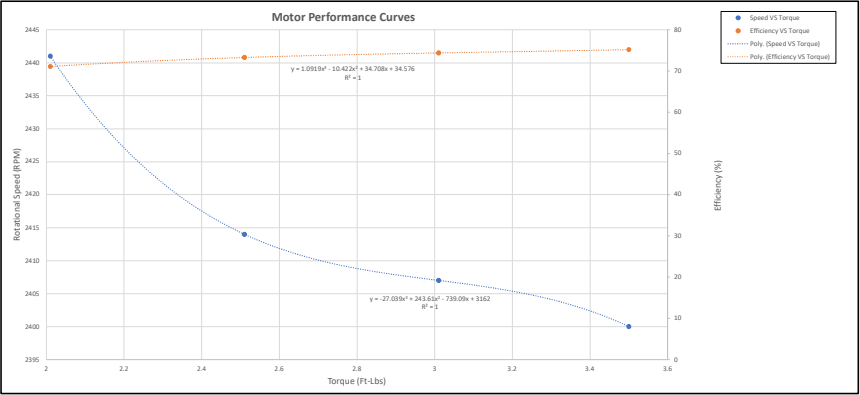
Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 24 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.01	3125	24.1	56.2	1.8	2.94	59.14	1.82	1.2	65.5
2.97	3009	23.8	79.4	1.8	2.96	82.36	2.54	1.7	66.5
4.04	2988	23.5	105.2	1.8	2.92	108.12	3.31	2.22	67.1
5	2722	23	134	1.8	2.91	136.91	4.14	2.59	62.6



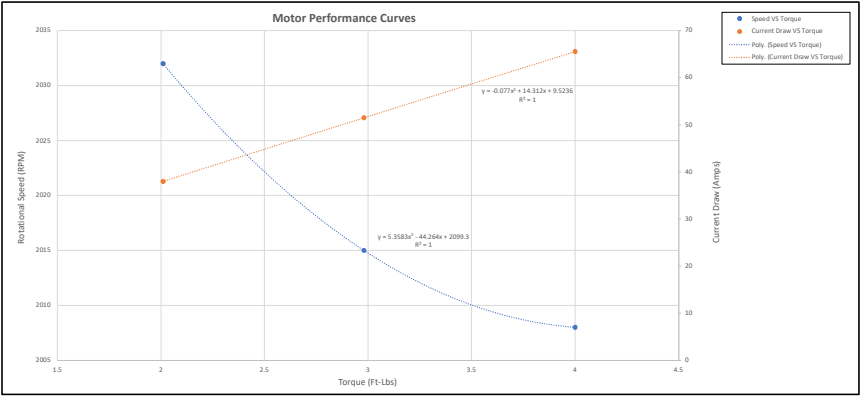
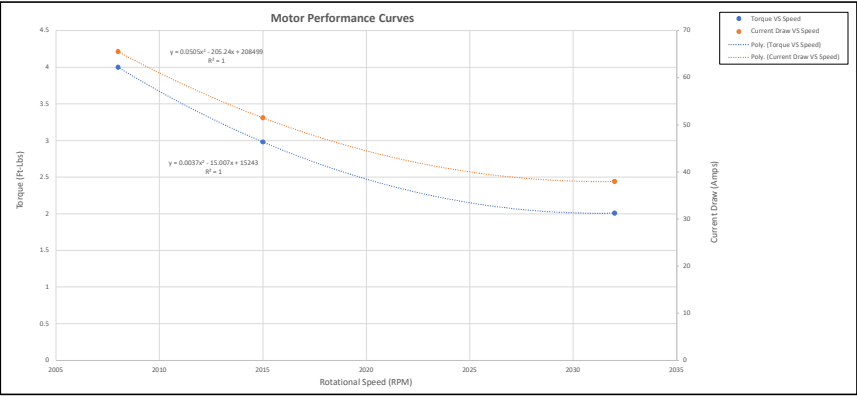
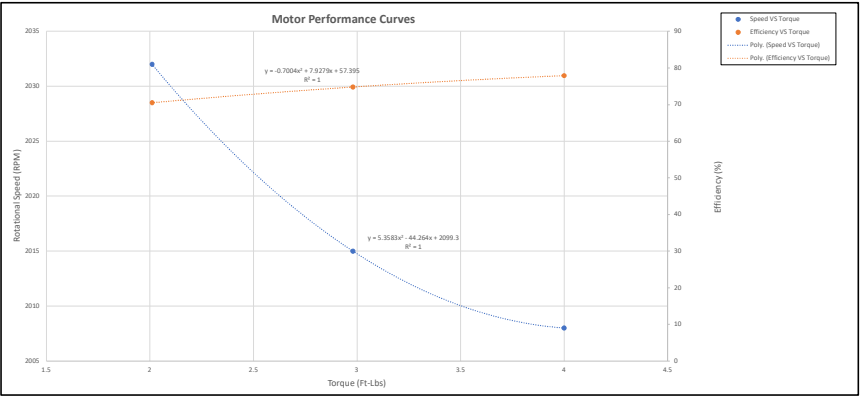
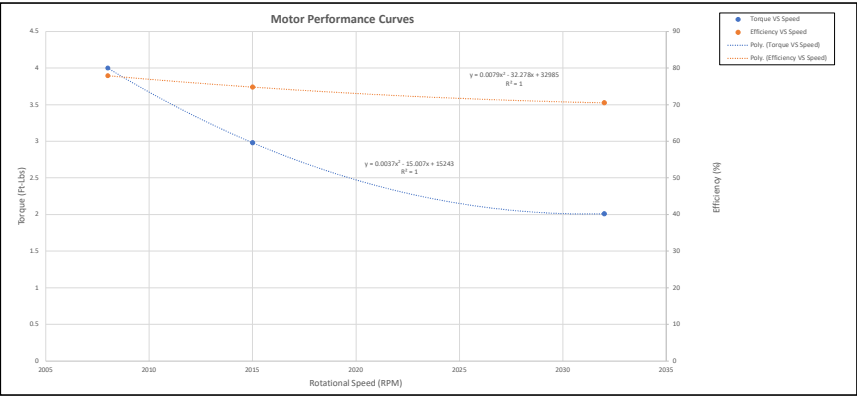
Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 24 - (1 * 0.015)

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 (%)
2.01	2441	24.4	39.8	2.3	4	43.8	1.31	0.93	71.1
2.51	2414	24.3	48	2.3	4.02	52.02	1.57	1.15	73.3
3.01	2407	24.1	57.1	2.3	3.99	61.09	1.85	1.38	74.4
3.5	2400	24	66	2.3	4	70	2.13	1.61	75.2



Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 24 - (1 * 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 (%)
2.01	2032	24.5	33	2.9	4.98	37.98	1.1	0.78	70.5
2.98	2015	24.3	46.5	2.9	4.99	51.49	1.53	1.14	74.8
4	2008	24.1	60.5	2.9	5.04	65.54	1.97	1.54	77.8

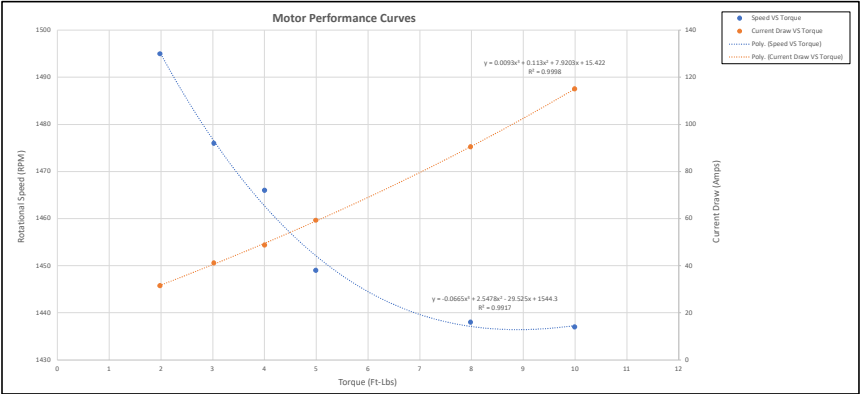
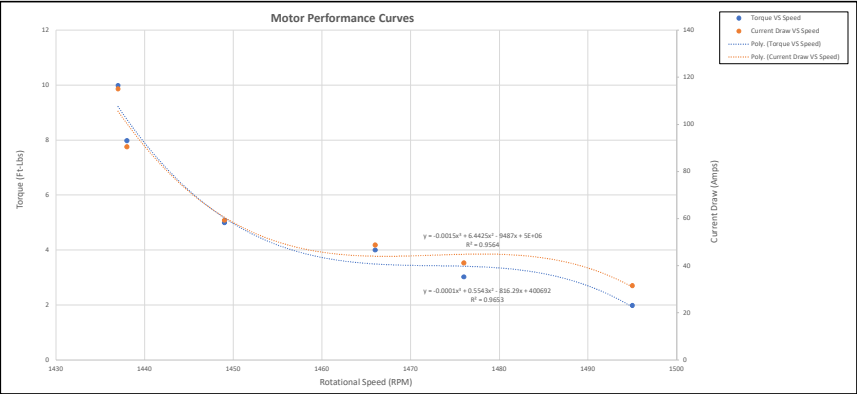
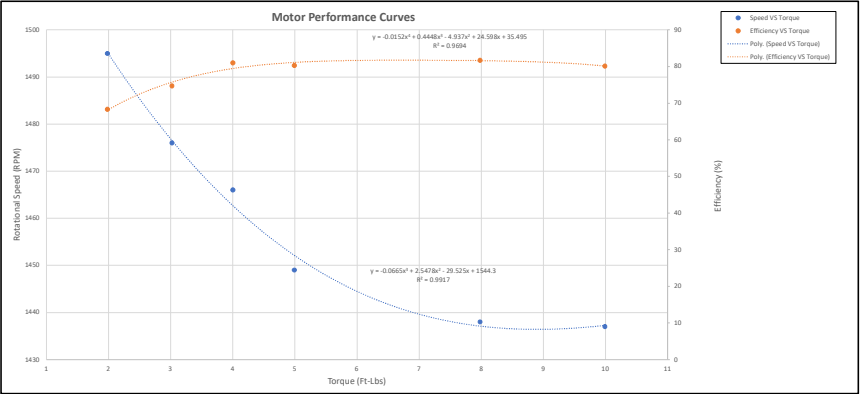
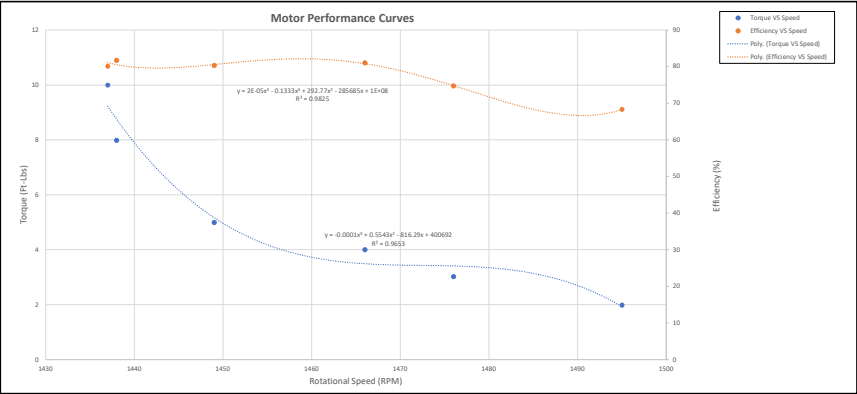


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 24 - (1 * 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 (%)
1.98	1495	24.7	23.4	4.6	8.09	31.49	0.82	0.56	68.3
3.02	1476	24.5	23.3	4.6	8.07	41.17	1.14	0.85	74.7
4	1466	24.4	20.6	4.7	8.12	48.72	1.38	1.12	81
4.99	1449	24.2	51.2	4.7	8.11	59.31	1.71	1.38	80.3
7.98	1438	23.8	82.4	4.7	8.08	90.48	2.68	2.19	81.7
9.99	1437	23.4	107	4.7	8.06	115.06	3.41	2.73	80.3

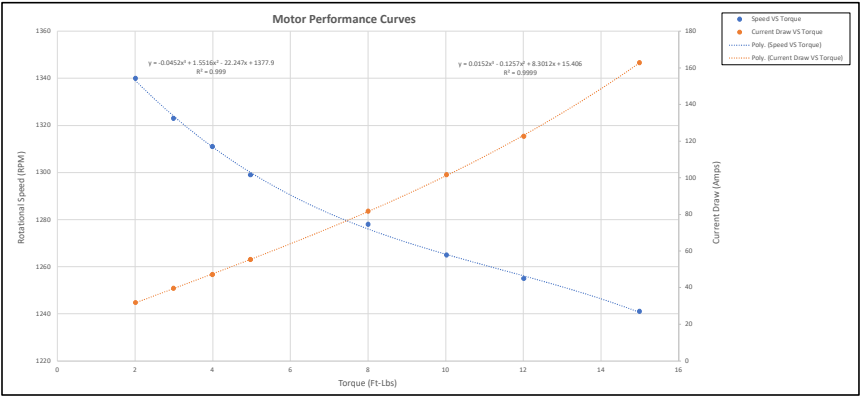
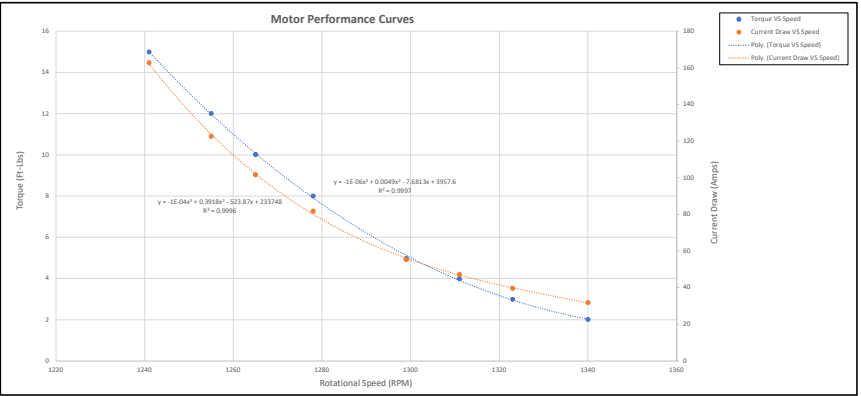
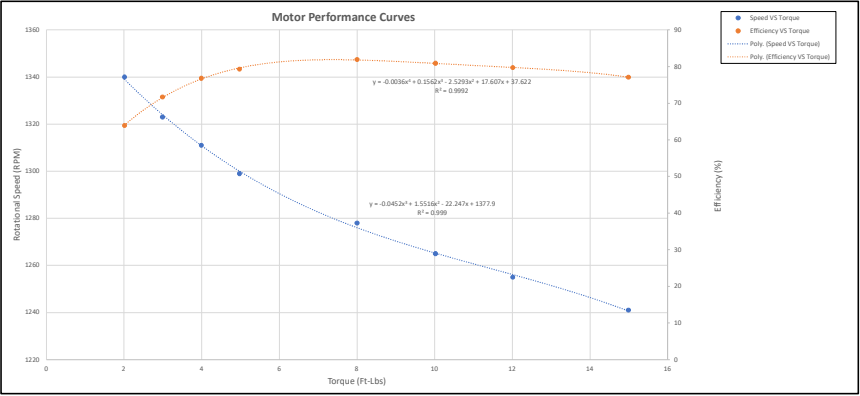
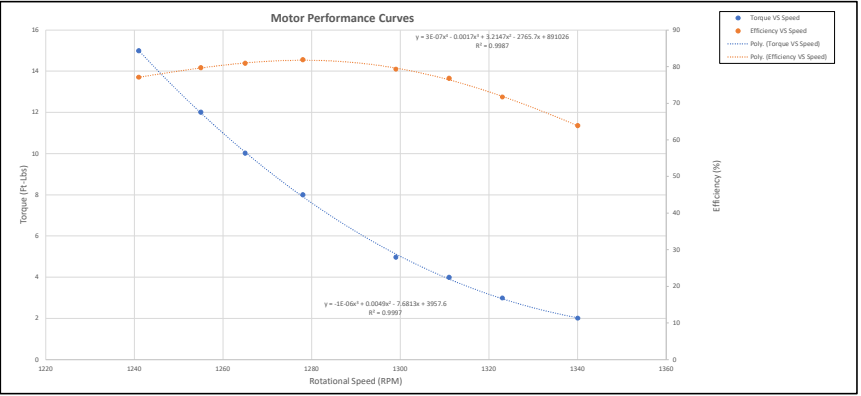


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 24 - 1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.01	1340	24.7	21.8	5.9	10.05	31.85	0.8	0.51	63.9
2.99	1322	24.6	29.5	5.9	10.08	39.58	1.05	0.75	71.7
3.99	1311	24.4	37.1	5.9	10.05	47.15	1.3	1	76.8
4.97	1299	24.3	45.2	5.9	10.12	55.32	1.55	1.23	79.3
8	1278	23.9	71.7	5.9	10.06	81.76	2.38	1.95	81.9
10.02	1265	23.7	91.6	5.9	10.07	101.67	2.98	2.41	80.9
12.01	1255	23.3	112.6	5.9	10.06	122.66	3.6	2.87	79.7
14.99	1241	22.7	152.8	6	10.03	162.83	4.72	3.64	77.1

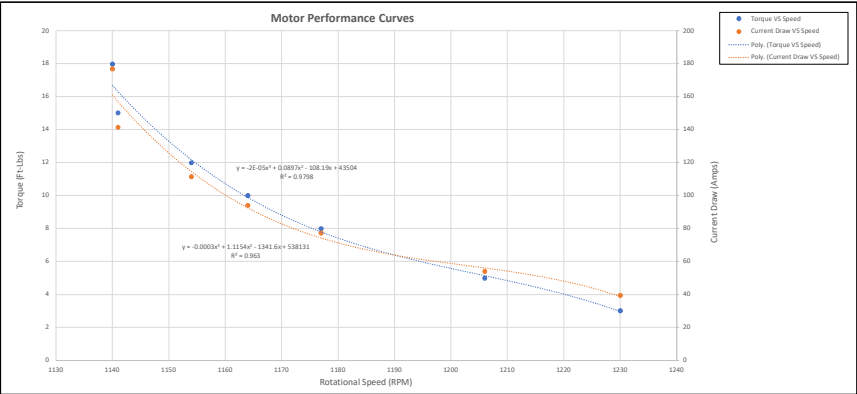
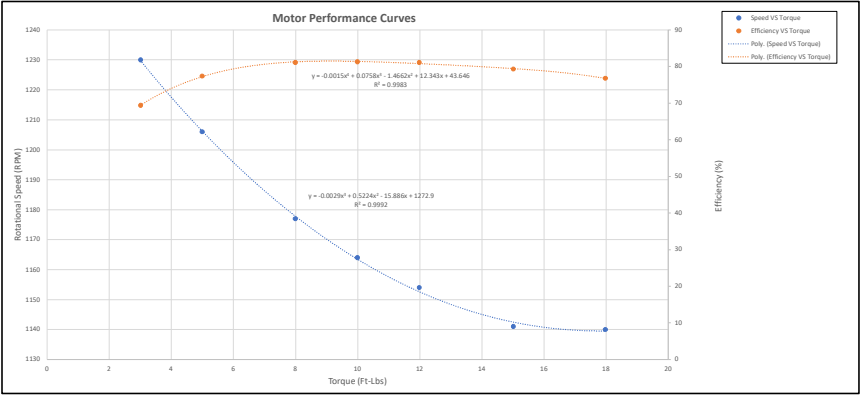
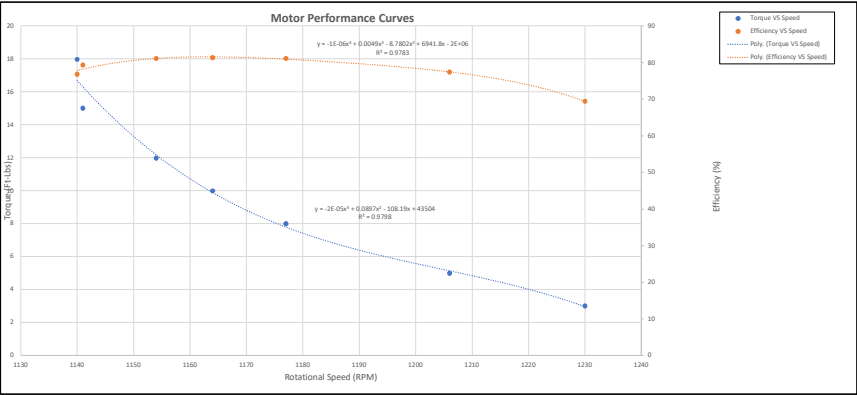


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 24 - (1 * 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	1230	24.6	27.3	7	12.1	39.4	1.01	0.7	69.4
4.99	1206	24.4	41.8	7	12.15	53.95	1.48	1.15	77.4
7.99	1177	24	65.1	7.1	12.08	77.18	2.21	1.79	81.1
9.99	1164	23.8	81.9	7.1	12.12	94.02	2.73	2.21	81.3
11.98	1154	23.5	99.3	7.1	12.06	111.36	3.25	2.63	81.1
15.01	1141	23.1	129.3	7.1	12.06	141.36	4.11	3.26	79.3
17.97	1140	22.5	164.6	7.1	12.21	176.81	5.08	3.9	76.8

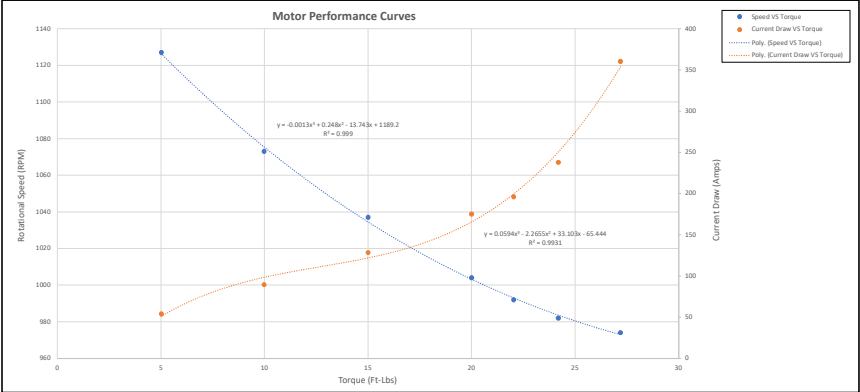
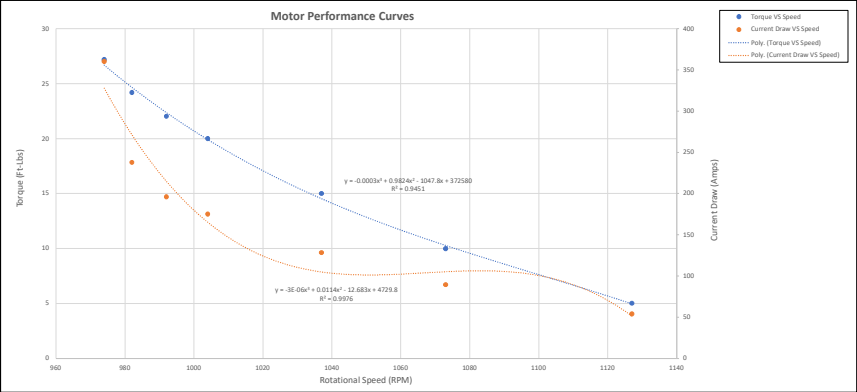
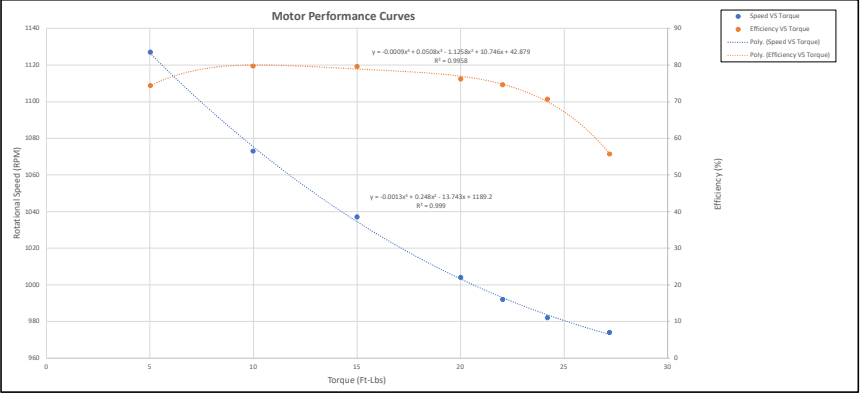
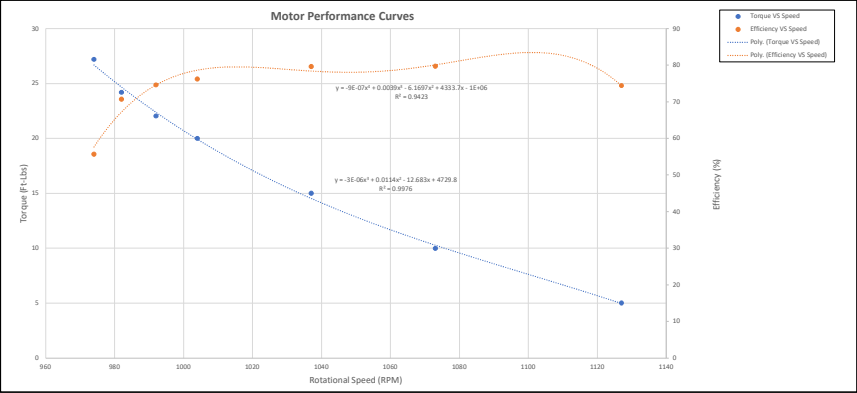


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 24 - (1 * 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 (%)
5.02	1127	24.4	38.9	8.8	15.1	54	1.45	1.68	74.4
9.98	1079	23.9	74.3	8.8	15.15	89.45	2.58	2.94	79.7
15	1037	23.3	113.2	8.8	15.08	128.28	3.72	2.96	79.6
20	1004	22.6	159.9	8.9	15.19	175.09	5.02	3.82	76.2
22.03	992	22.3	180.8	8.9	15.14	195.94	5.58	4.69	74.6
24.19	982	21.5	222.4	8.9	15.39	237.79	8.8	4.67	70.7
27.19	974	19.8	344.9	9	15.37	360.27	9.32	5.19	55.7

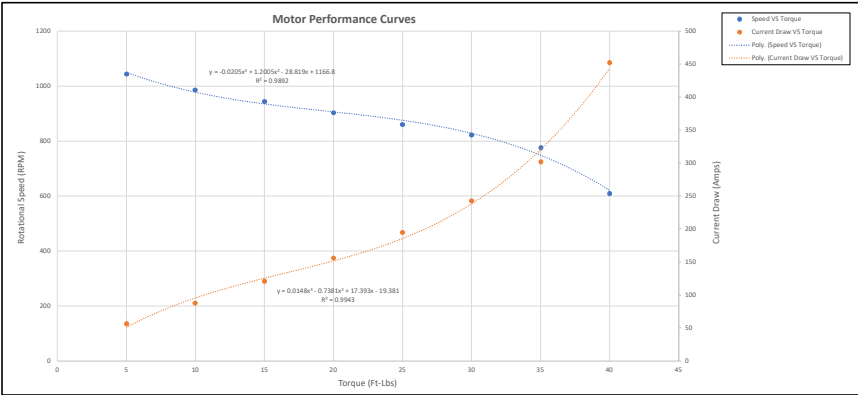
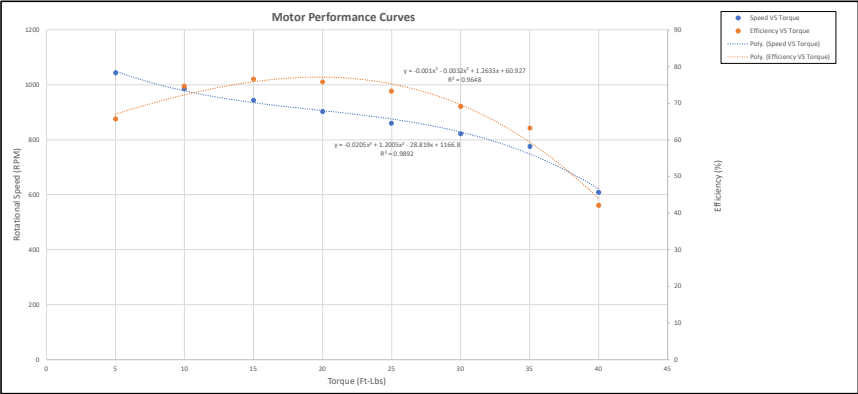
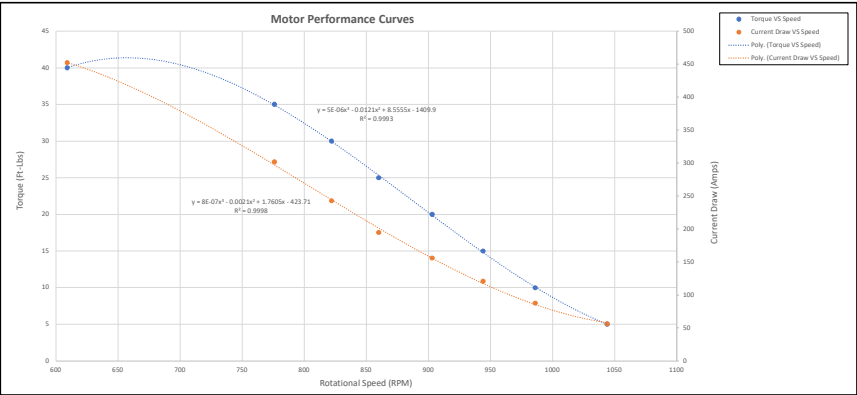
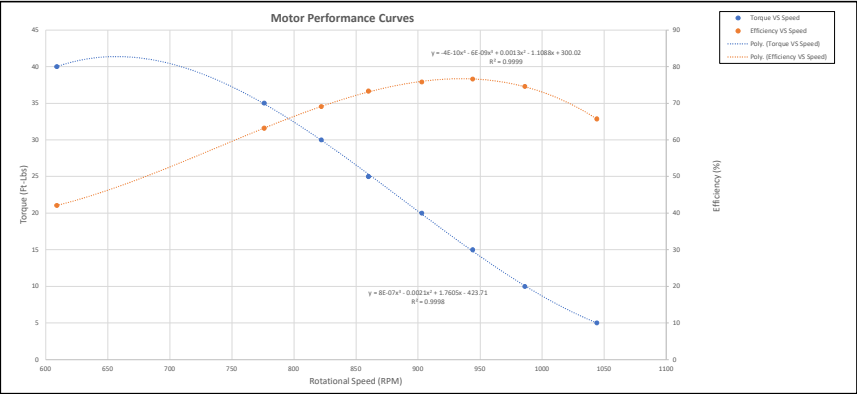


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 24 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.01	1044	24.4	36	12.6	20.14	56.14	1.52	1	65.7
9.98	986	24	67.5	12.6	20.14	87.64	2.51	1.87	74.6
15	944	23.5	100.7	12.7	20.13	120.83	3.52	2.69	76.6
20	903	23	135.9	12.8	20.05	155.95	4.54	3.44	75.8
24.99	860	22.4	174.8	12.9	19.98	194.78	5.58	4.09	73.3
30	822	21.6	222.2	12.9	20.13	242.83	6.8	4.7	69.1
35.02	776	20.7	281.8	13	20.11	301.91	8.18	5.17	63.2
40	609	18.4	431.9	13	20.25	452.15	11.01	4.64	42.1

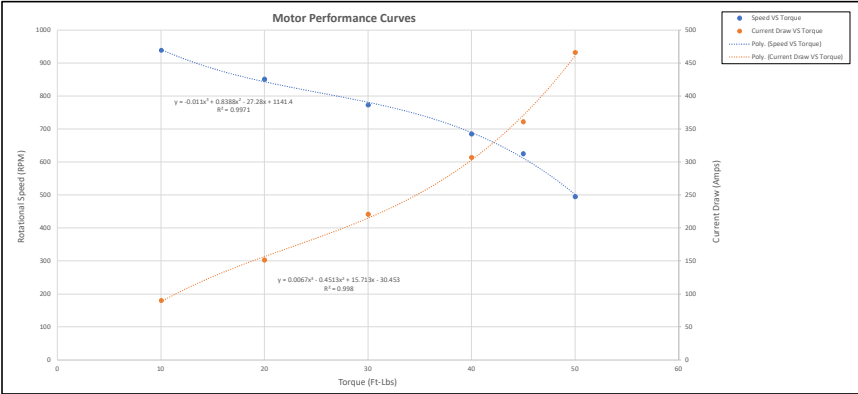
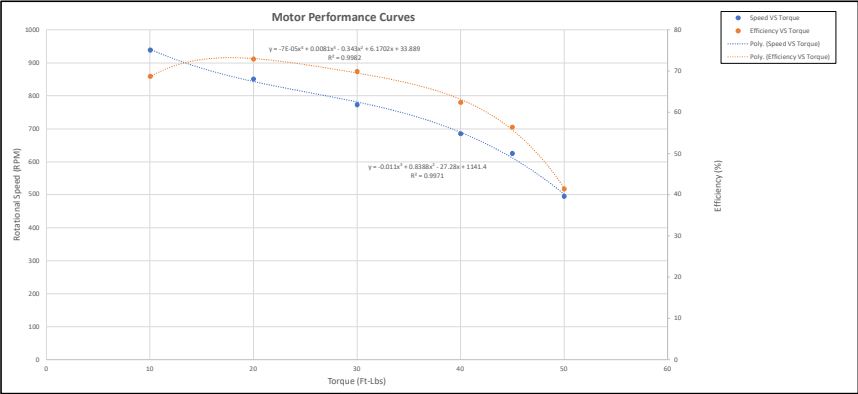
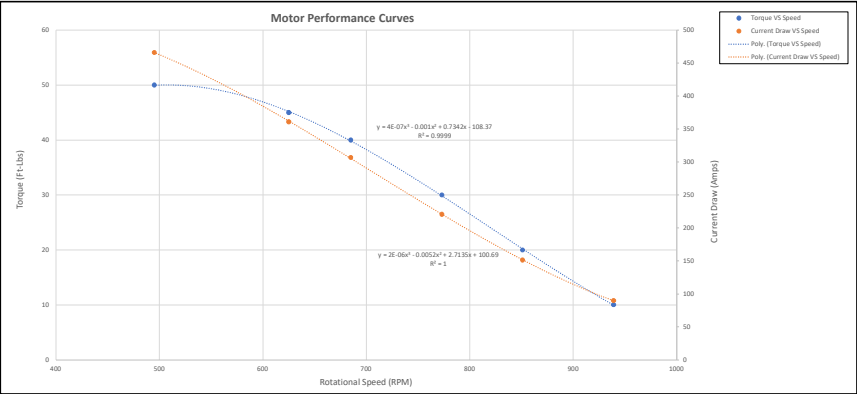
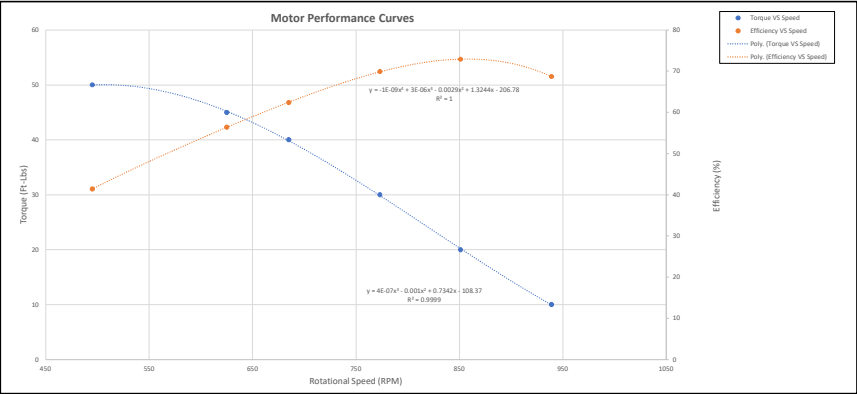


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 24 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10.03	939	24	64.9	15.5	25.04	89.94	2.61	1.79	68.7
30	851	23.2	135.8	15.7	25.1	151.5	4.45	3.24	72.8
30.01	773	22	195.8	15.8	24.85	220.65	6.31	4.41	69.9
40.01	685	20.7	282.1	16	24.86	306.96	8.36	5.22	62.4
45	625	19.9	335.9	16.1	25.12	361.02	9.49	5.35	56.4
50.01	495	18.3	441.3	16.3	24.89	466.19	11.37	4.71	41.4

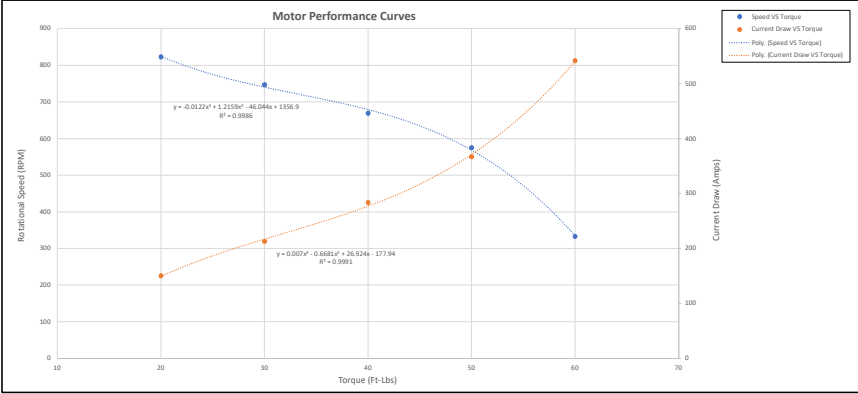
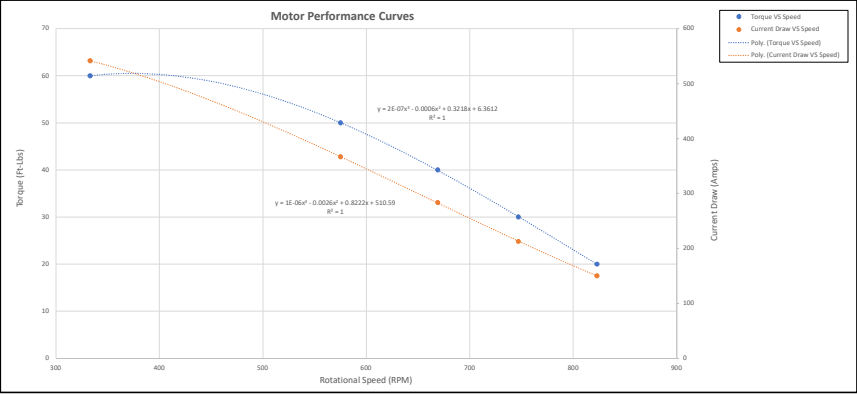
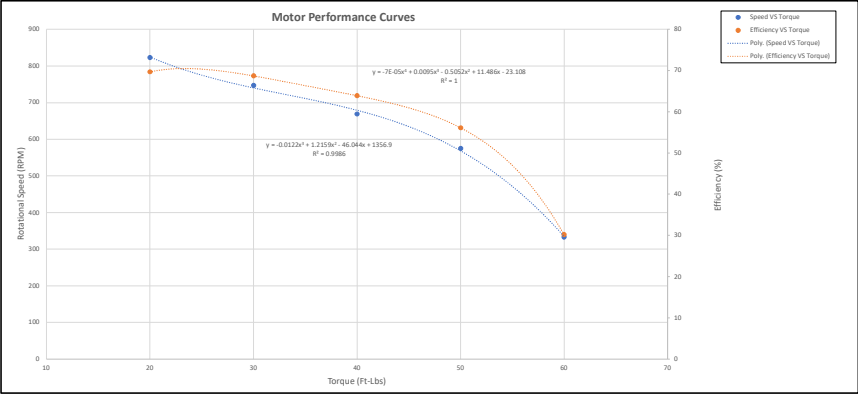
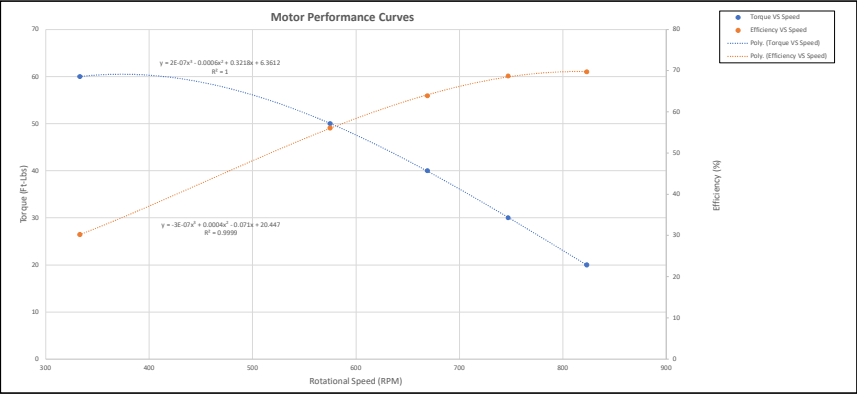


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 24 - (1 * 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 (%)
20	823	23.2	120.3	18.7	29.94	150.24	4.5	3.13	69.7
30.01	747	22.2	183.8	19	29.99	212.79	6.21	4.27	68.7
40	669	21.2	253.4	19.3	30.06	283.46	7.97	5.09	63.9
50.01	575	19.9	336.7	19.6	30.08	366.78	9.75	5.47	56.1
59.99	333	17.2	511.8	19.9	29.88	541.68	12.59	3.8	30.2

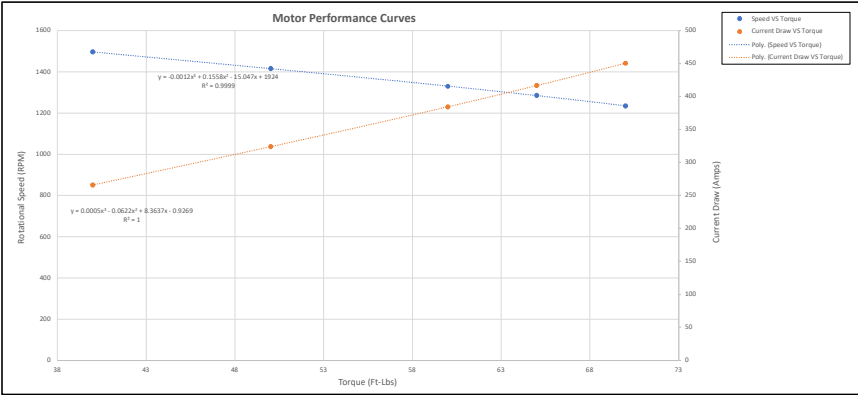
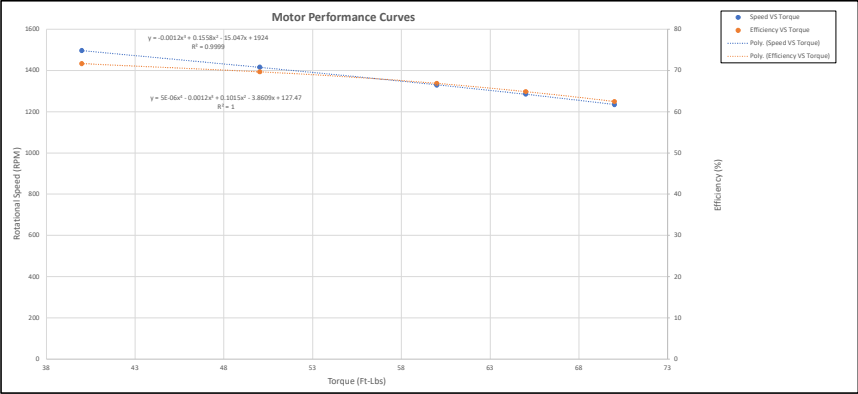
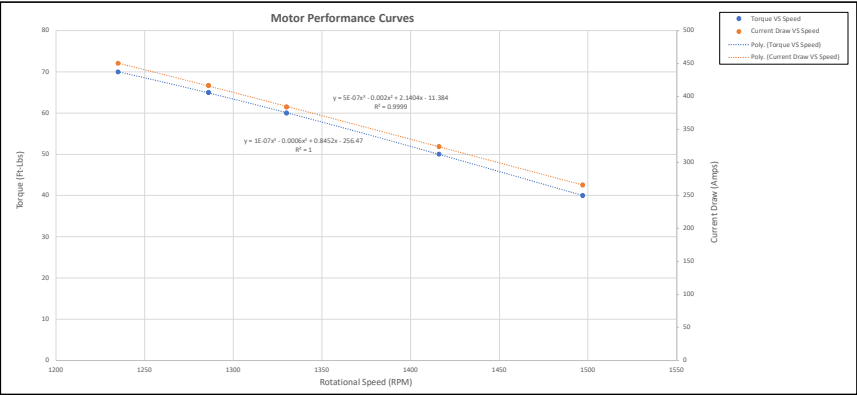
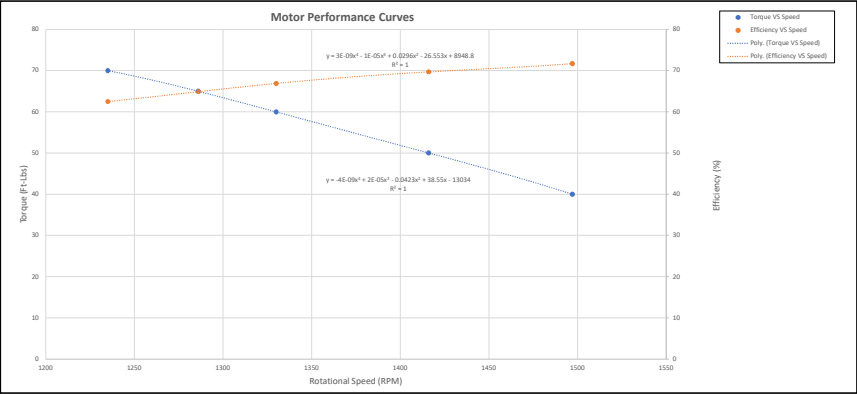


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Performance Spec (PS) Number: 8

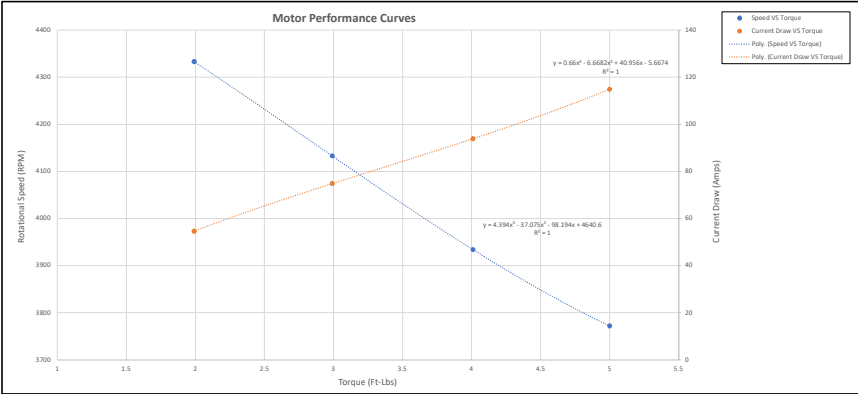
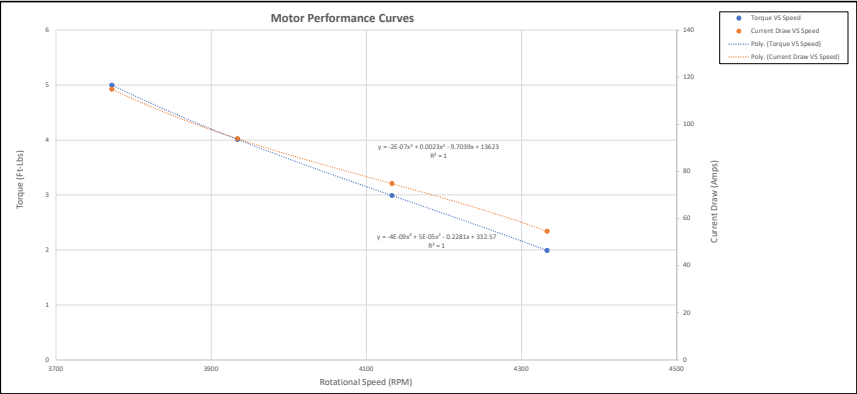
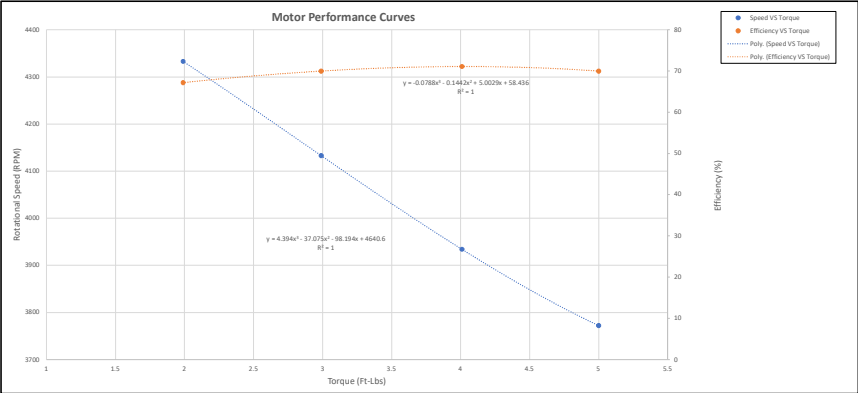
System Voltage (V): 24 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
39.99	1497	47	215.7	34.3	50.22	265.92	15.89	11.4	71.7
50.02	1416	46.1	274.3	35.9	49.99	324.23	19.34	13.48	69.7
59.99	1330	45.1	334.3	37.5	50.04	384.34	22.72	15.19	66.9
65	1286	44.5	366.7	39.2	50.28	416.98	24.53	15.92	64.9
70	1235	44	400.4	40.8	50.2	450.6	26.36	16.47	62.5



Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 36 - 1 * 0.015

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1.99	4333	35.2	51.6	1.8	3.03	54.63	2.45	1.64	67.2
2.99	4333	34.9	71.8	1.8	3.02	74.82	3.36	2.36	70
4.01	3934	34.6	90.9	1.8	3	93.5	4.22	3	71.1
5	3772	34.2	111.8	1.8	3.11	114.91	5.14	3.59	70

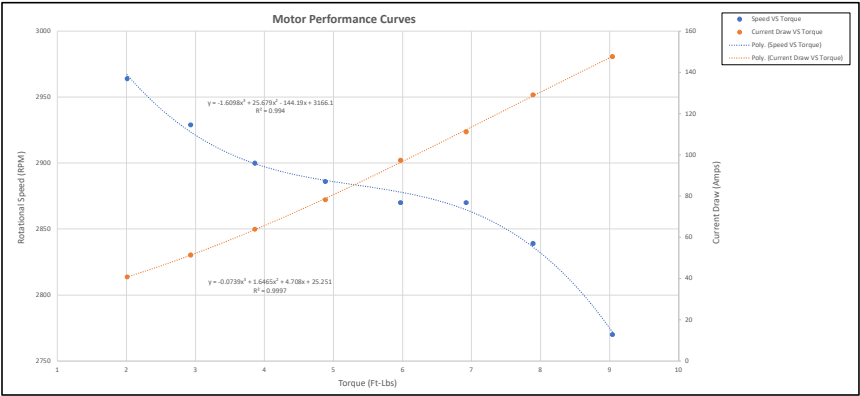
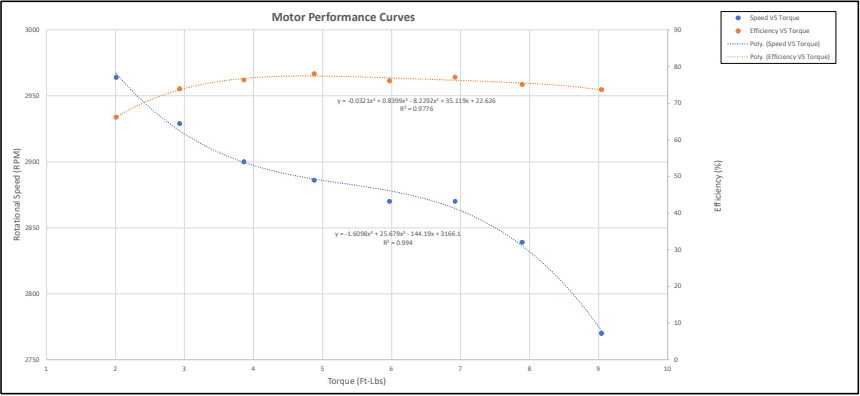
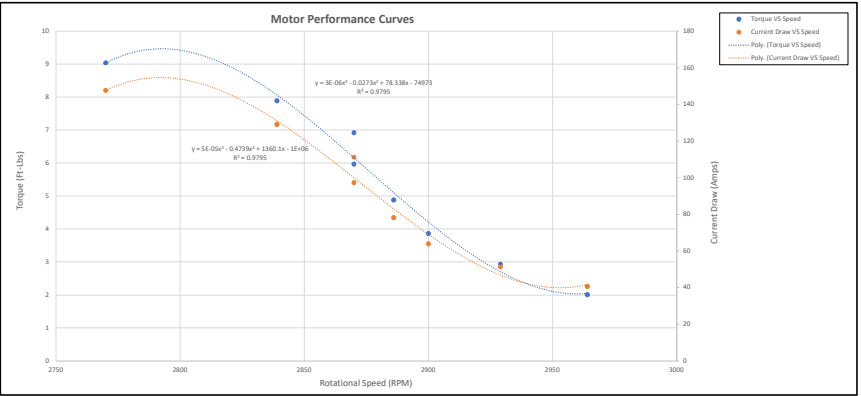
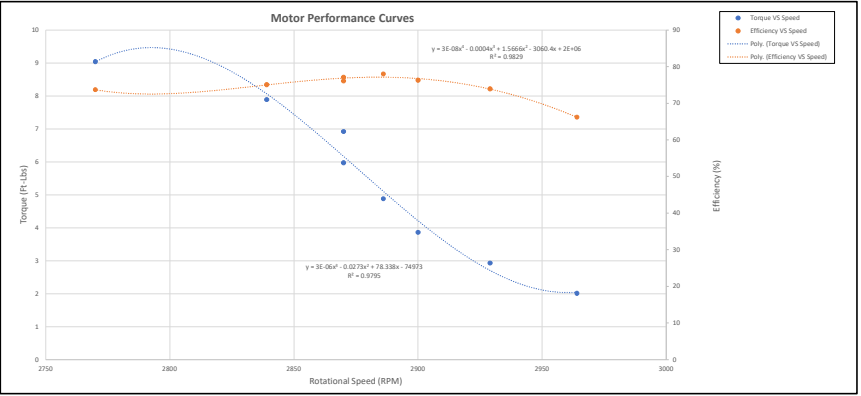


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 36 - 1 * 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 (%)
2.01	2964	35.5	35.6	2.9	5.12	40.72	1.71	1.13	66.2
2.93	2929	35.3	46.3	2.9	5.08	51.38	2.21	1.63	73.5
3.86	2900	35.1	58.8	2.9	5.11	63.91	2.79	2.13	76.3
4.88	2886	34.9	73.1	2.9	5.11	78.21	3.44	2.68	78
5.97	2870	34.5	92.2	3	5.13	97.33	4.29	3.26	76.1
6.92	2870	34.4	106.1	3	5.08	111.18	4.91	3.78	77.1
7.89	2839	34.1	124.1	3	5.02	129.12	5.69	4.27	75.1
9.04	2770	33.7	142.6	3	5.07	147.67	6.47	4.77	73.7

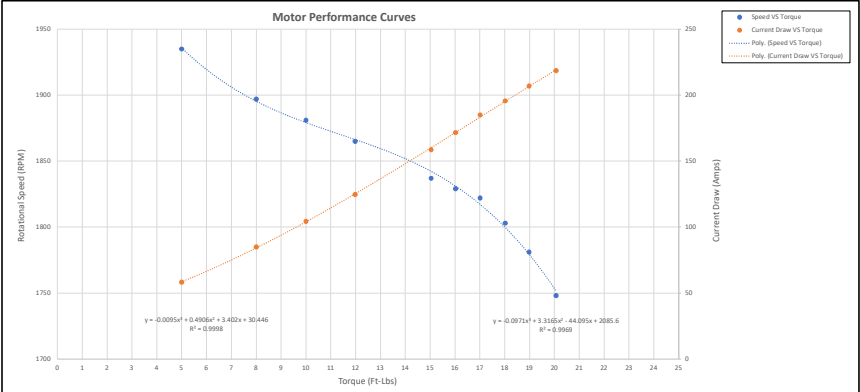
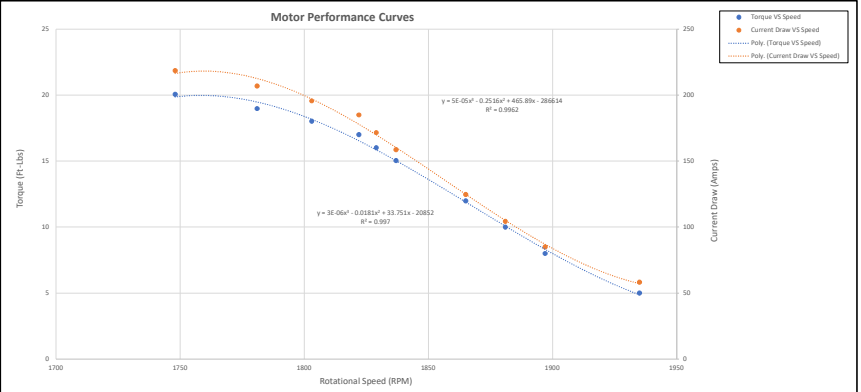
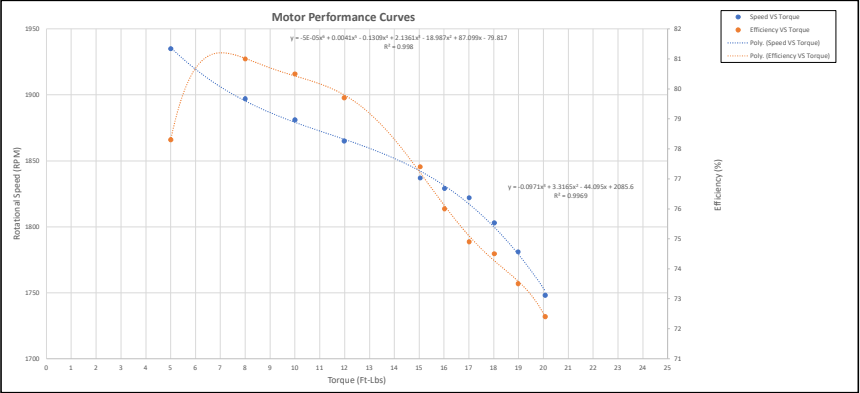
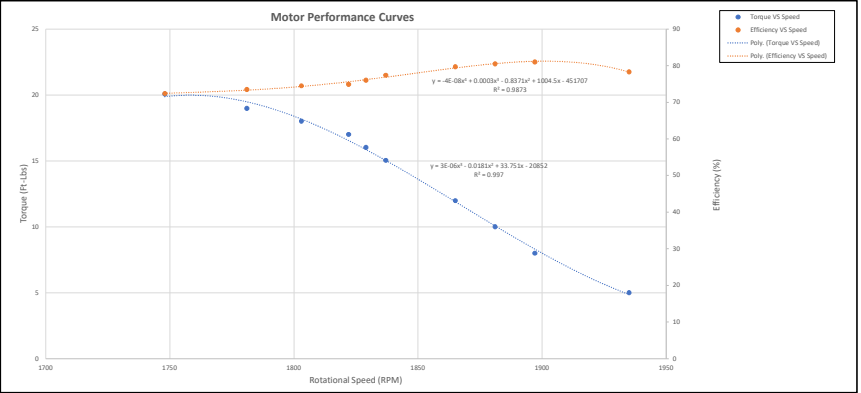


Engineering Performance Test Report

Performance Spec (PS) Number: 8

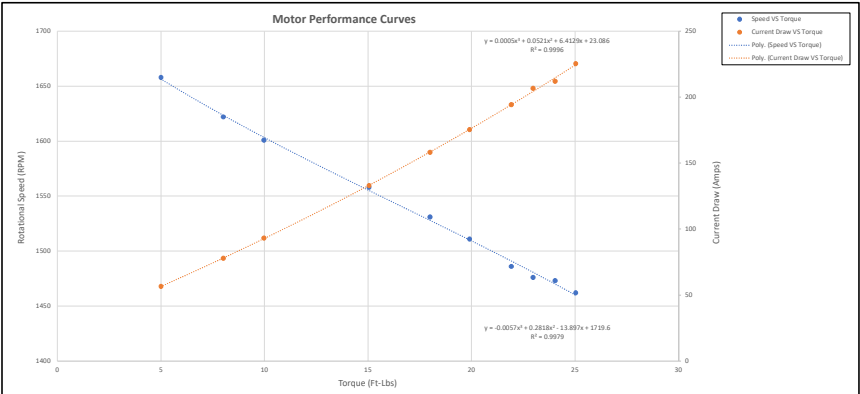
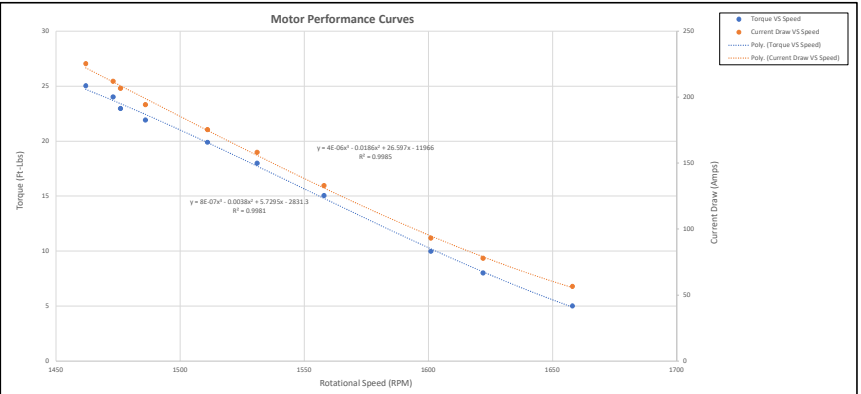
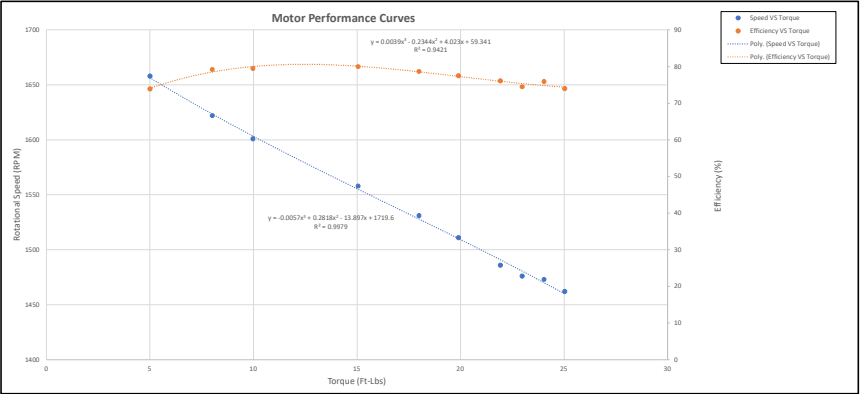
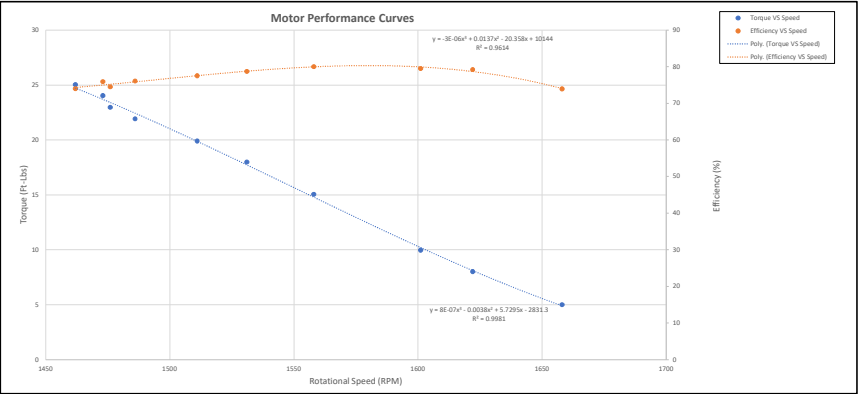
System Voltage (V): 36 - (1 * 0.015)

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	1935	35.3	48.1	5.7	10.13	58.23	2.35	1.84	78.3
8	1897	34.9	74.2	5.8	10.12	84.92	3.57	2.89	81
10	1881	34.6	94.3	5.8	10.04	104.34	4.45	3.58	80.5
11.98	1865	34.2	114.6	5.8	10.1	124.7	5.34	4.25	79.7
15.04	1837	33.7	148.6	5.8	10.04	158.64	6.8	5.26	77.4
16.02	1829	33.5	161.5	5.8	10.11	171.61	7.34	5.58	76
17.01	1822	33.3	174.9	5.8	10.13	185.03	7.88	5.9	74.9
18.02	1803	33.1	185.5	5.8	10.12	195.62	8.3	6.19	74.5
18.98	1781	32.9	196.9	5.9	10.03	206.93	8.76	6.43	73.5
20.07	1748	32.7	208.6	5.9	10.03	218.63	9.22	6.68	72.4



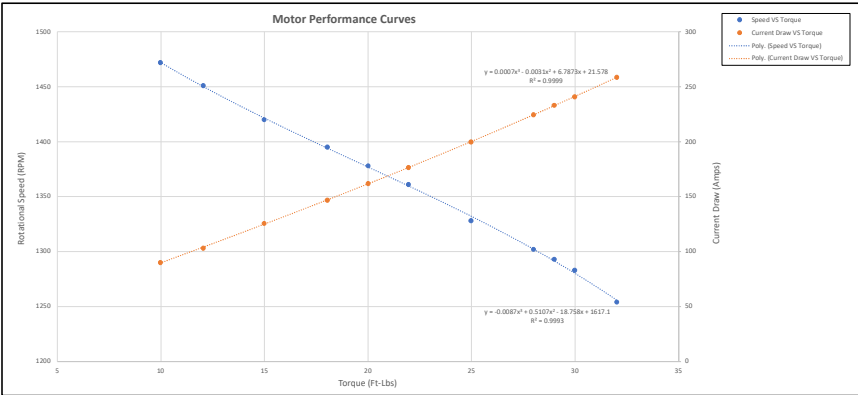
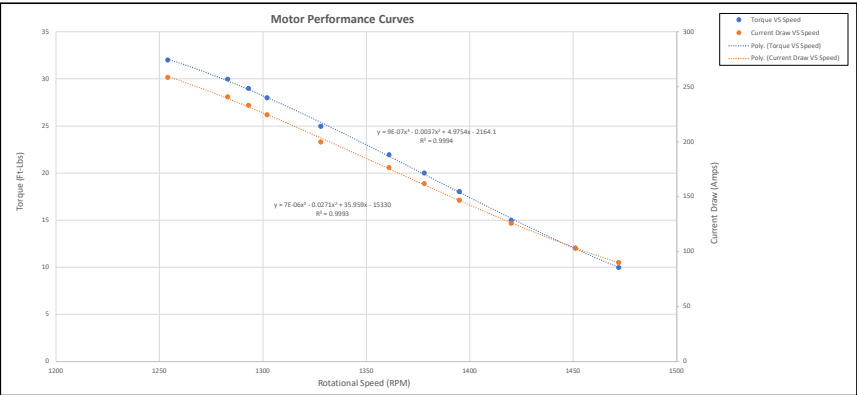
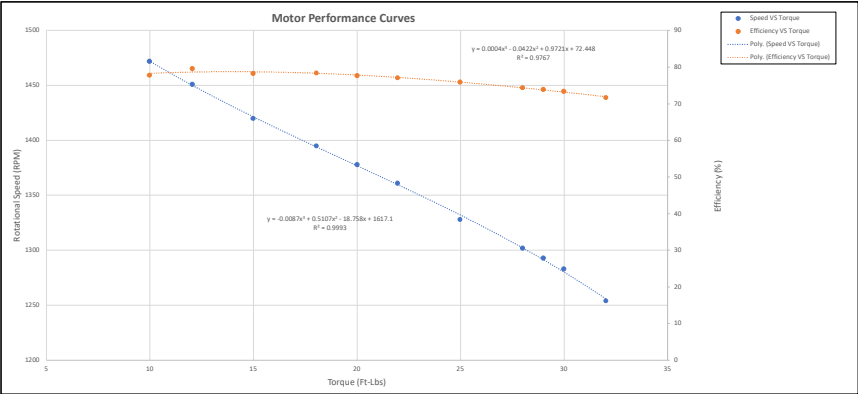
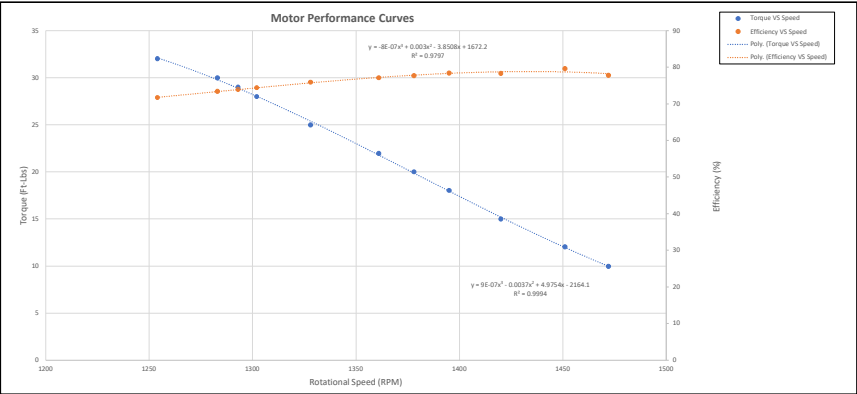
Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 36 - (1 * 0.015)

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	1658	35.4	41.5	8.4	15.01	56.51	2.14	1.58	73.9
8.01	1622	35.4	62.8	8.4	15.02	77.82	3.12	2.47	79.2
9.97	1601	34.8	78.3	8.4	14.92	93.22	3.82	3.04	79.5
15.05	1558	34.2	118	8.5	15	133	5.58	4.46	80
17.99	1531	33.8	143.2	8.5	15.03	158.23	6.67	5.24	78.7
19.9	1511	33.6	160.3	8.5	15.08	175.38	7.39	5.73	77.5
21.92	1486	33.2	179.4	8.6	14.92	194.32	8.16	6.2	76.1
22.97	1476	33.1	191.6	8.6	15.11	206.71	8.66	6.45	74.5
24.03	1473	33	197	8.6	15.09	212.09	8.88	6.74	75.9
25.03	1462	32.7	210.6	8.7	14.92	225.42	9.41	6.97	74



Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 36 - (1 * 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 (%)
9.97	1472	35	70.1	11.4	19.96	90.06	3.59	2.79	77.8
12.04	1451	34.8	83.8	11.5	20	103.1	4.18	3.33	79.6
14.98	1420	34.4	105.6	11.6	19.99	125.59	5.18	4.05	78.3
18.03	1395	34.1	126.9	11.7	19.94	146.84	6.1	4.79	78.4
20	1378	33.8	141.9	11.7	19.94	161.84	6.75	5.25	77.7
21.95	1361	33.6	156.7	11.8	19.89	176.53	7.38	5.69	77.1
24.97	1328	33.2	179.6	11.9	20.02	199.62	8.32	6.31	75.9
27.99	1302	32.9	204.5	12	19.98	224.48	9.32	6.94	74.4
28.99	1293	32.7	213.2	12	19.94	233.14	9.67	7.14	73.9
29.98	1283	32.6	220.8	12.1	20.04	240.84	9.97	7.32	73.4
32.01	1254	32.3	238.5	12.2	20.1	258.6	10.66	7.65	71.7

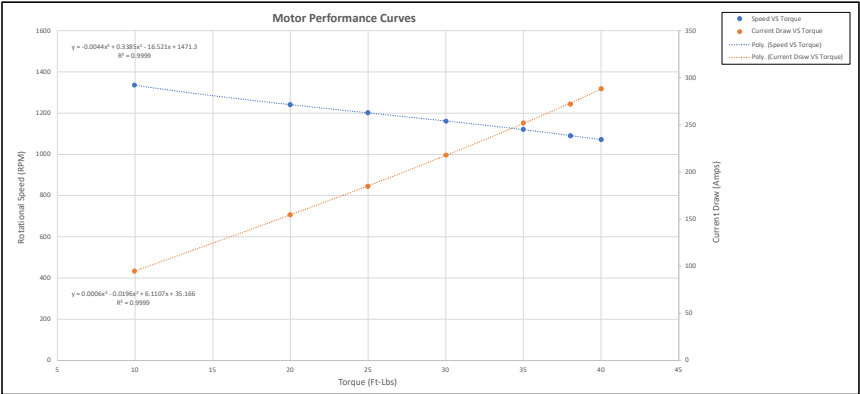
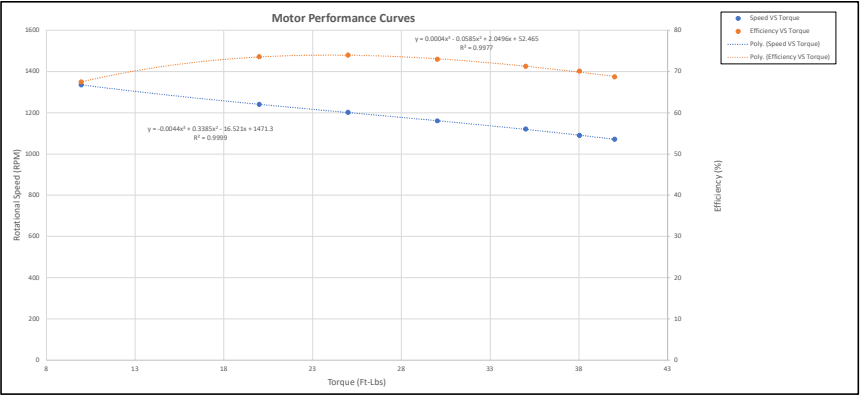
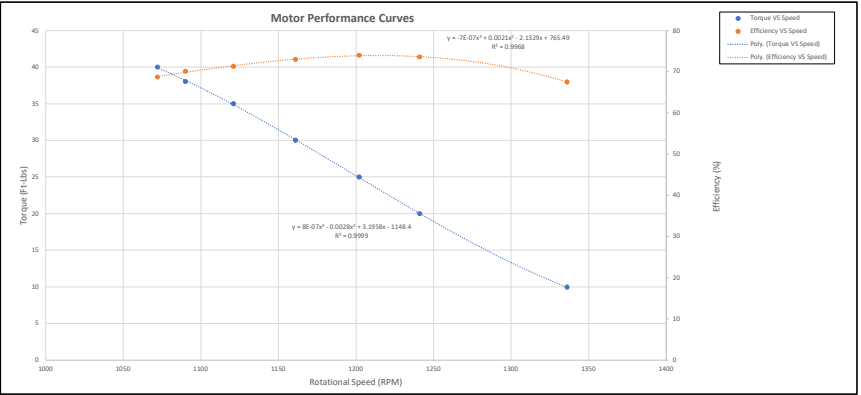


Engineering Performance Test Report

Performance Spec (PS) Number: 8

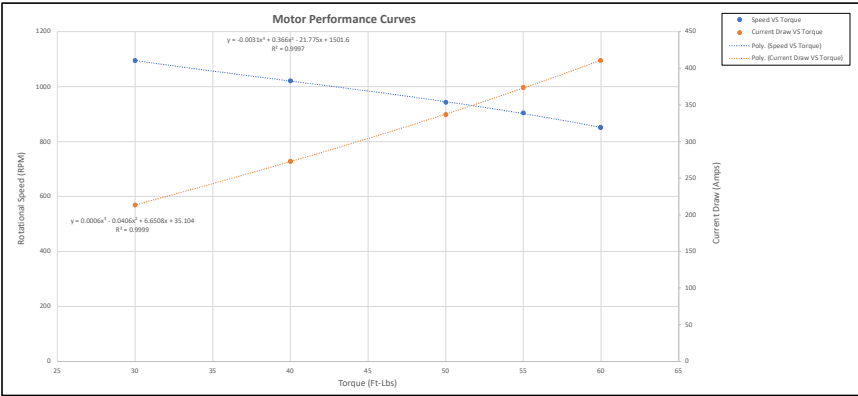
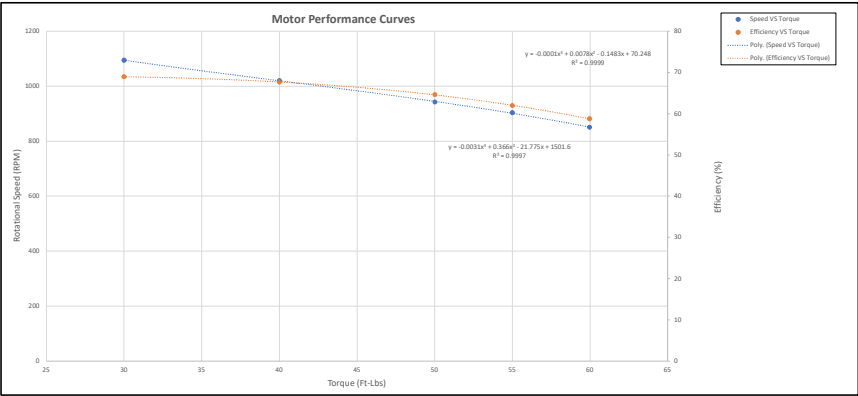
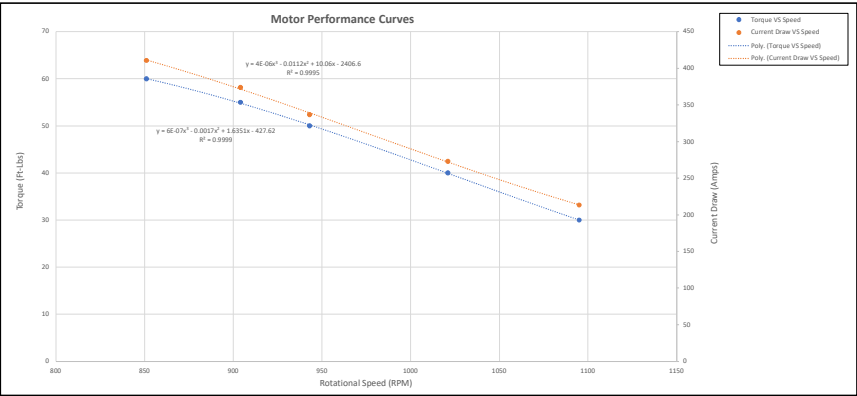
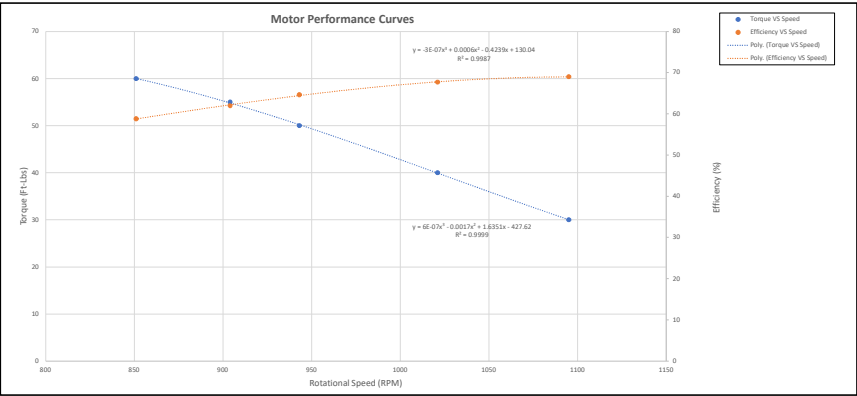
System Voltage (V): 36 - (1 * 0.015)

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 (%)
9.96	1336	35	64.6	17.7	30.09	94.69	3.75	2.53	67.5
19.99	1241	34.1	124.5	18.4	30.09	154.59	6.42	4.72	73.6
24.99	1205	33.7	154.9	18.4	29.95	184.85	7.73	5.72	74
30.02	1161	33.1	187.8	18.7	30.17	217.97	9.09	6.64	73
35	1121	32.6	222	18.9	30.01	252.01	10.47	7.47	71.3
38.01	1090	32.3	247.1	19.2	30.03	277.13	11.26	7.89	70.1
40.01	1072	32.1	258.1	19.5	30.27	288.37	11.89	8.17	68.7



Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 36 - (1 * 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 (%)
30	1095	33.4	173.4	24.5	40.05	213.45	9.06	6.25	69
40	1071	32.5	233.1	25.2	39.98	272.98	11.49	7.79	67.7
50.01	943	31.5	296.9	26	39.87	336.77	13.92	8.98	64.65
55	904	30.9	333.9	26.7	40.02	373.92	15.28	9.47	62
59.97	851	30.3	370.8	27.04	39.99	410.79	16.54	9.72	58.8

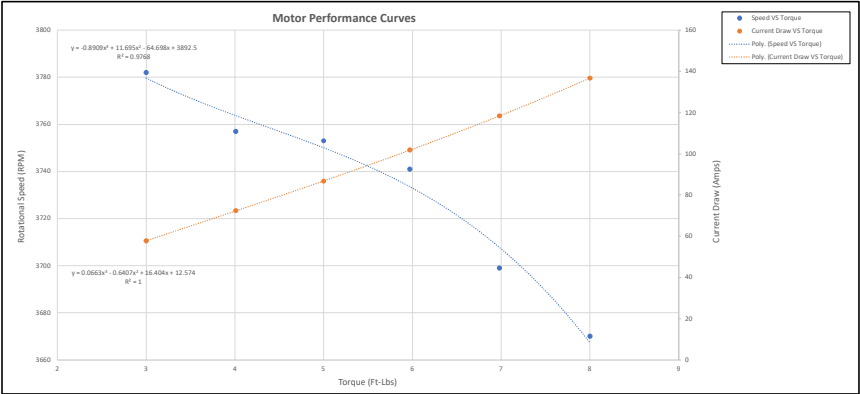
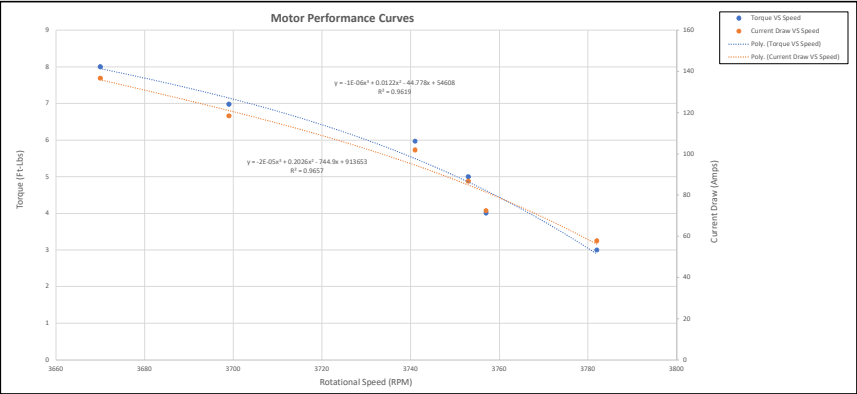
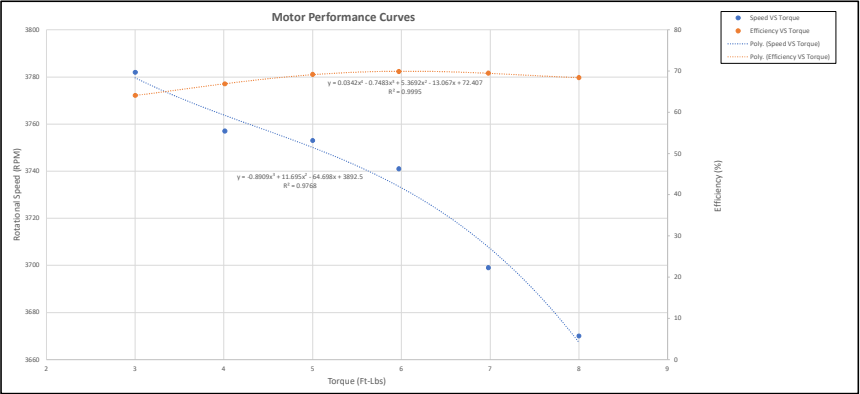
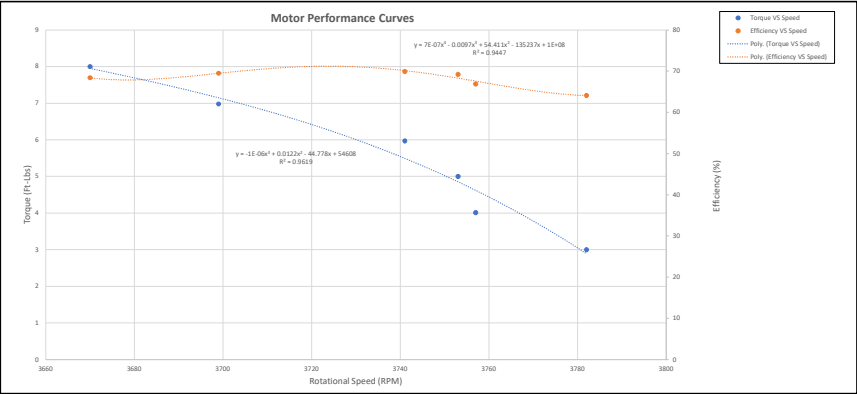


Engineering Performance Test Report

Performance Spec (PS) Number: 8

System Voltage (V): 48 (0 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3	3782	47.5	52.8	2.9	4.98	57.78	3.38	2.16	64.1
4.01	3757	47.2	67.8	2.9	5.03	72.83	4.29	2.87	66.9
5	3753	47	81.7	2.9	5.04	86.74	5.16	3.57	69.2
5.97	3741	46.8	96.8	2.9	5.01	101.81	6.09	4.26	69.9
6.98	3699	46.5	113.4	2.9	5.03	118.43	7.08	4.92	69.5
8	3670	46.2	131.7	2.9	5.09	136.79	8.17	5.59	68.4

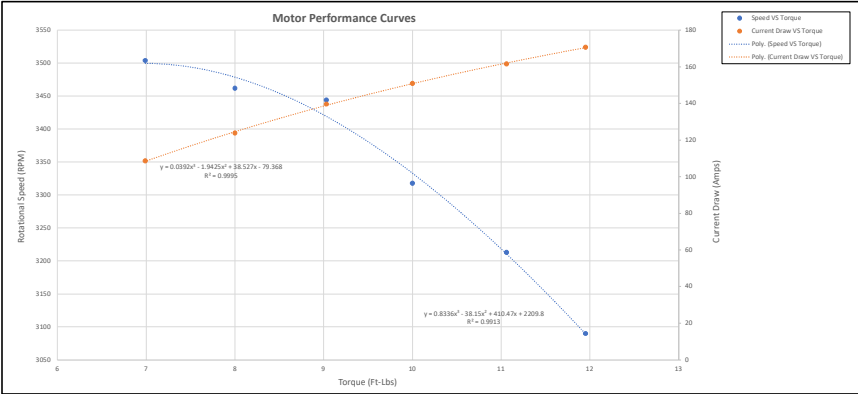
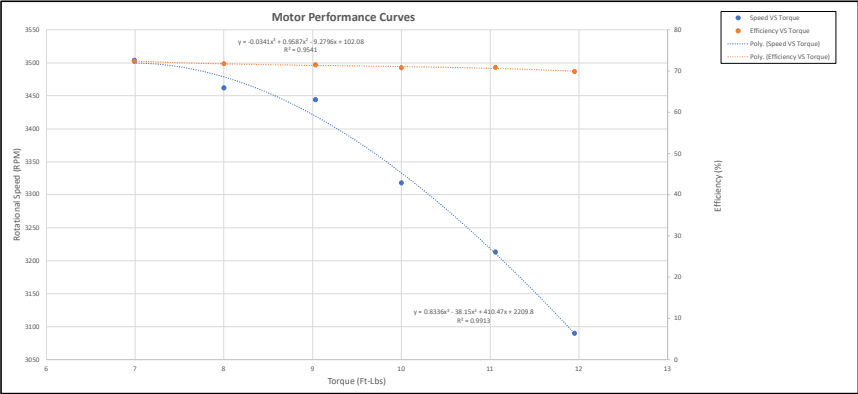
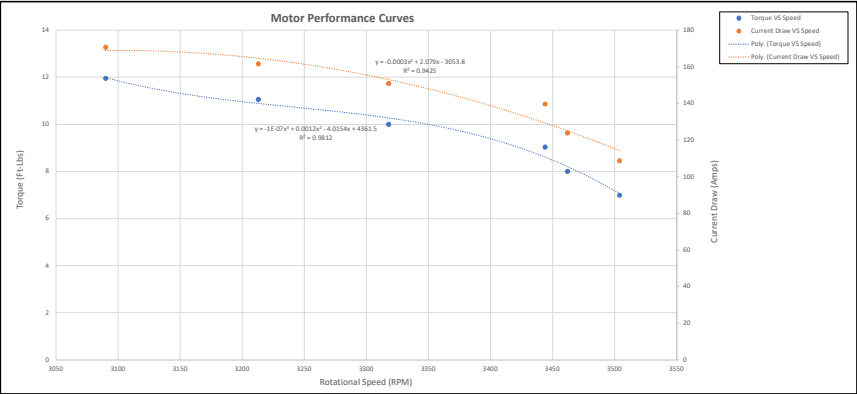
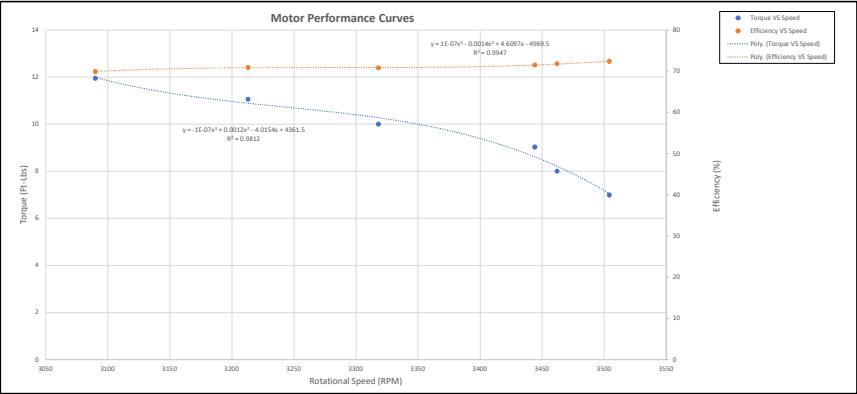


Engineering Performance Test Report

Performance Spec (PS) Number: 8

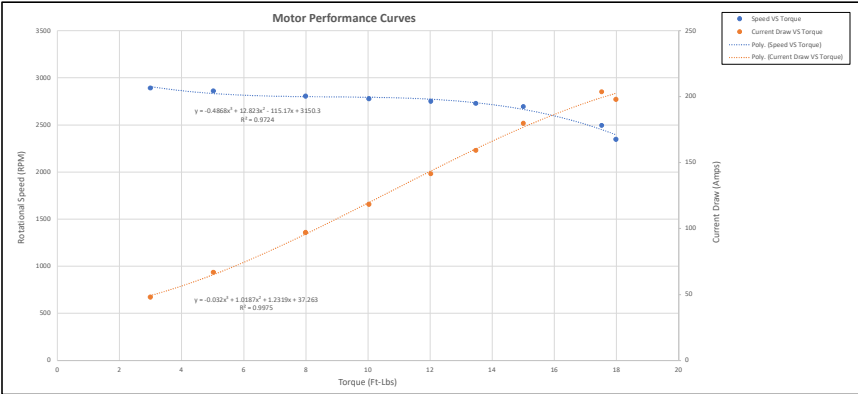
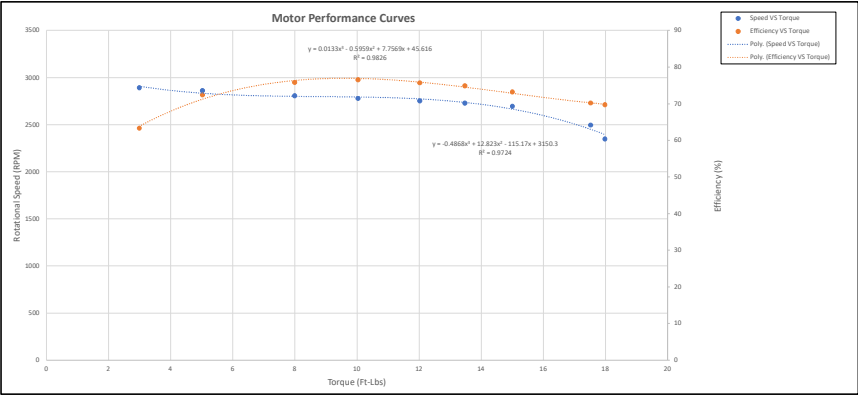
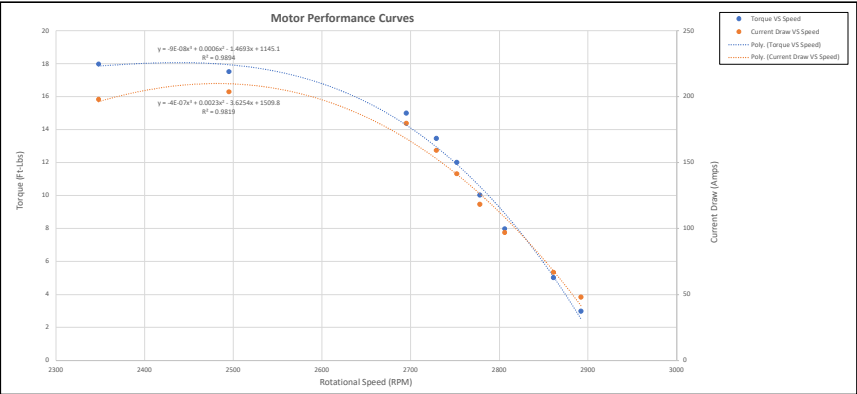
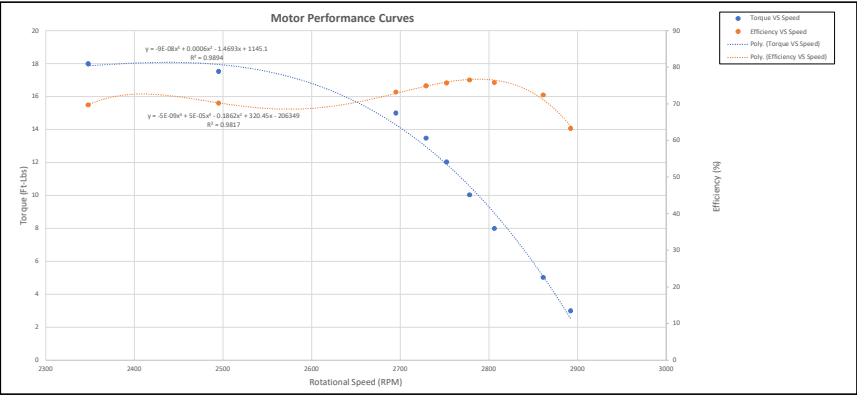
System Voltage (V): 48 (± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
6.99	3504	46.6	102.6	3.4	6.03	108.63	6.44	4.66	72.4
8	3462	46.3	117.8	3.4	6.04	123.84	7.34	5.27	71.8
9.03	3444	46.1	133.6	3.4	6.05	139.65	8.28	5.92	71.5
10	3318	45.8	144.9	3.4	6.04	150.94	8.92	6.32	70.8
11.06	3213	45.6	155.6	3.4	5.99	161.59	9.54	6.76	70.9
11.95	3090	45.5	164.7	3.4	5.97	170.67	10.06	7.03	69.9



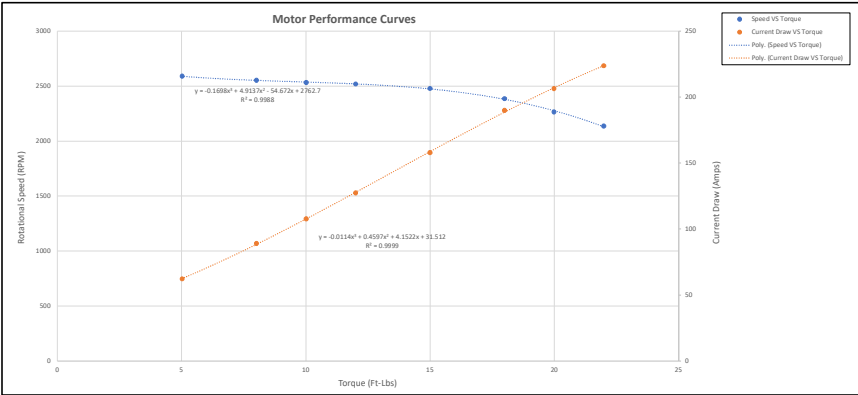
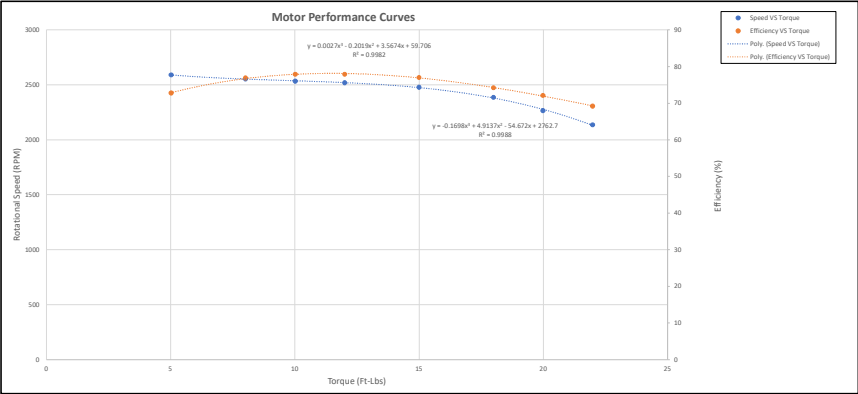
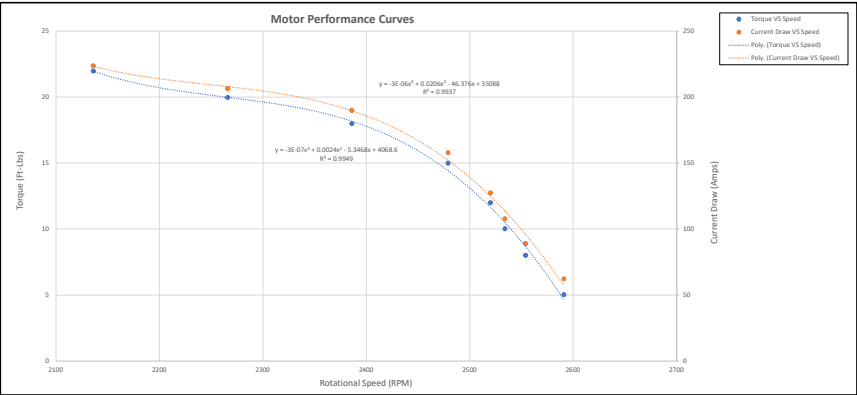
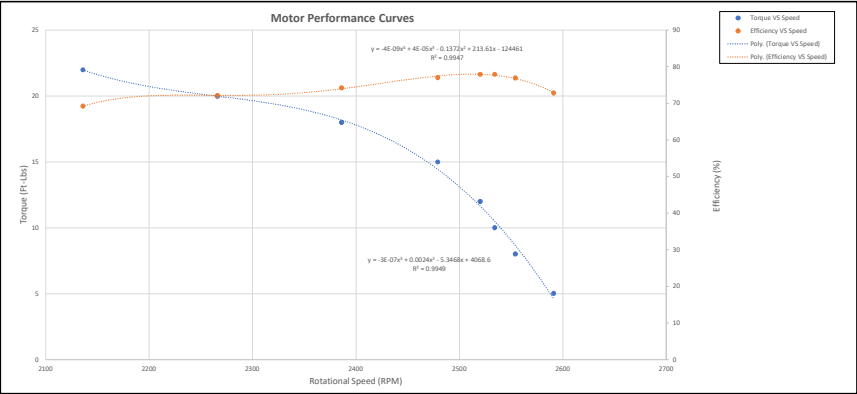
Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 48 (0 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.99	2892	47.7	39.9	4.8	8.15	48.05	2.6	1.65	63.3
5.02	2861	47.4	38.7	4.8	8.14	46.84	3.79	2.74	72.4
7.99	2806	46.9	38.8	4.8	8.18	46.98	5.63	4.27	75.8
10.03	2778	46.6	110.3	4.8	8.07	118.37	6.94	5.31	76.5
12.02	2752	46.2	133.5	4.8	8.08	141.58	8.32	6.3	75.7
13.47	2729	45.8	151.2	4.8	8.12	159.32	9.34	7	74.9
15	2695	45.4	171.7	4.8	8.15	179.85	10.51	7.7	73.2
17.52	2495	45	195.6	4.8	8.14	203.74	11.86	8.32	70.2
17.98	2348	45.1	189.8	4.8	8.15	197.95	11.53	8.04	69.7



Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 48 (± 0.01%)

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 (%)
5.02	2591	47.5	52.1	6.1	10.13	62.23	3.4	2.47	72.8
8.01	2554	47.1	78.9	6.1	10.2	89.1	5.06	3.89	76.9
10.01	2534	46.8	97.6	6.1	10.11	107.71	6.2	4.83	77.9
12	2520	46.5	117.3	6.1	10.13	127.43	7.39	5.76	77.9
14.99	2479	45.9	147.9	6.1	10.02	157.92	9.19	7.07	77
17.99	2386	45.4	179.7	6.1	10.27	189.97	11.02	8.18	74.2
19.98	2265	45.1	196.3	6.1	10.18	206.48	11.96	8.62	72.1
21.98	2136	44.8	213.8	6.1	10.04	223.84	12.91	8.94	69.2

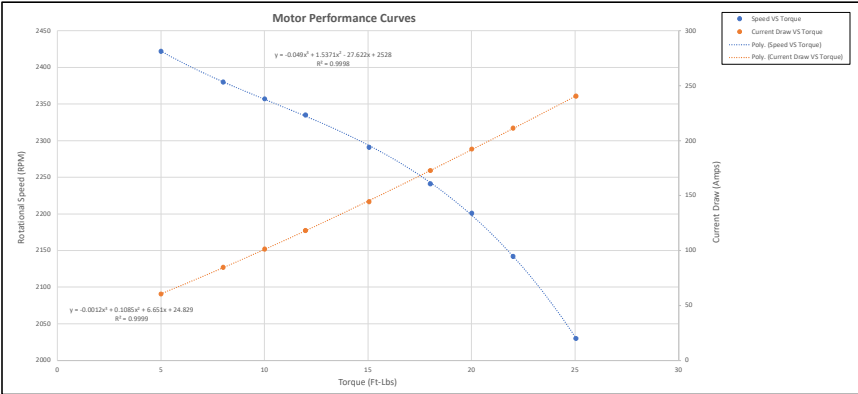
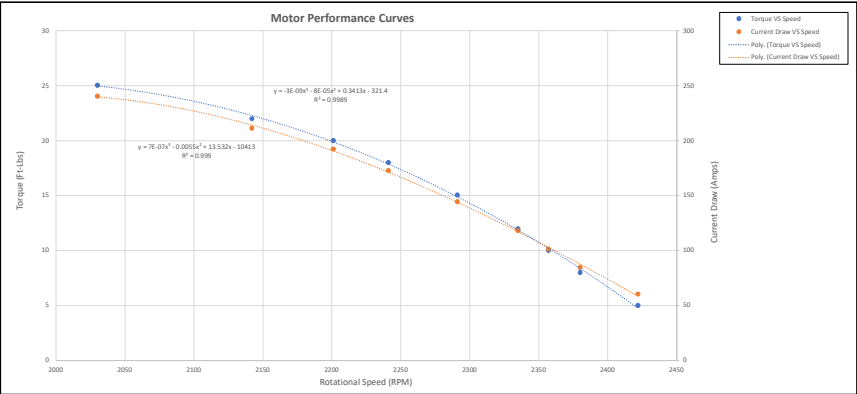
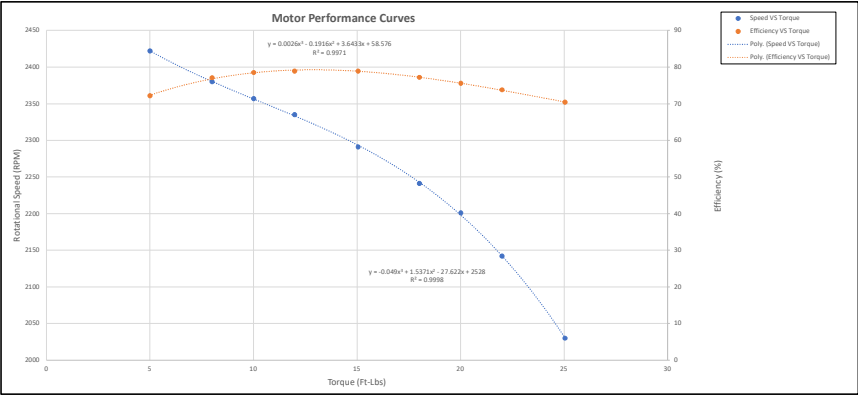
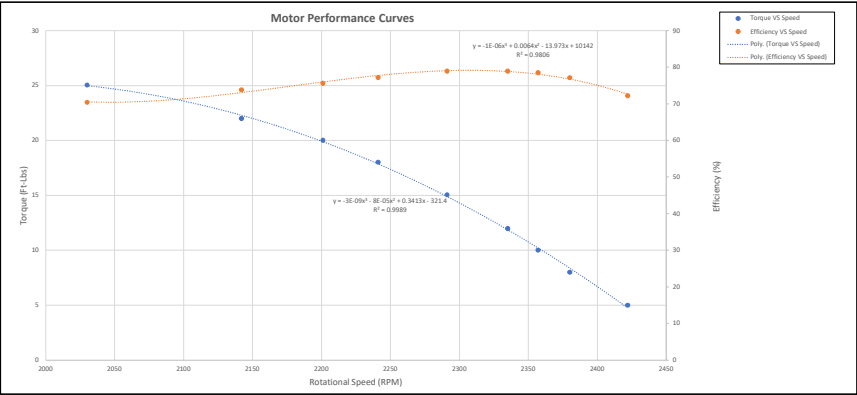


Engineering Performance Test Report

Performance Spec (PS) Number: 8

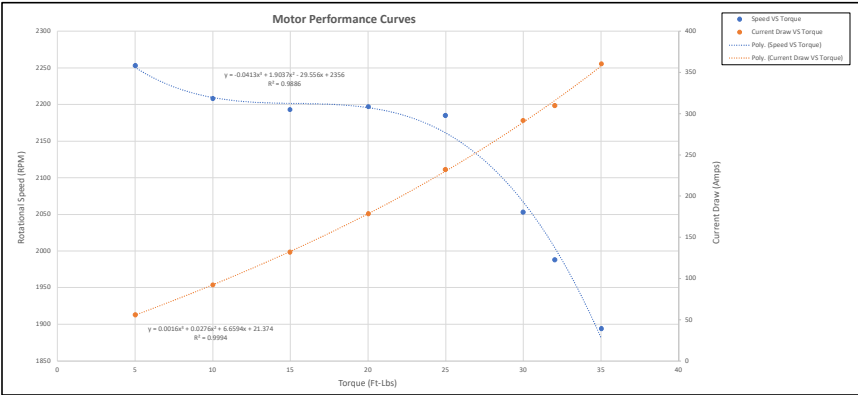
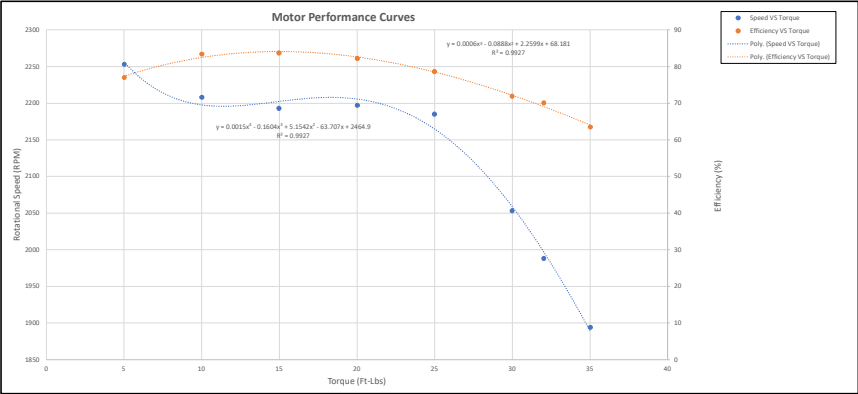
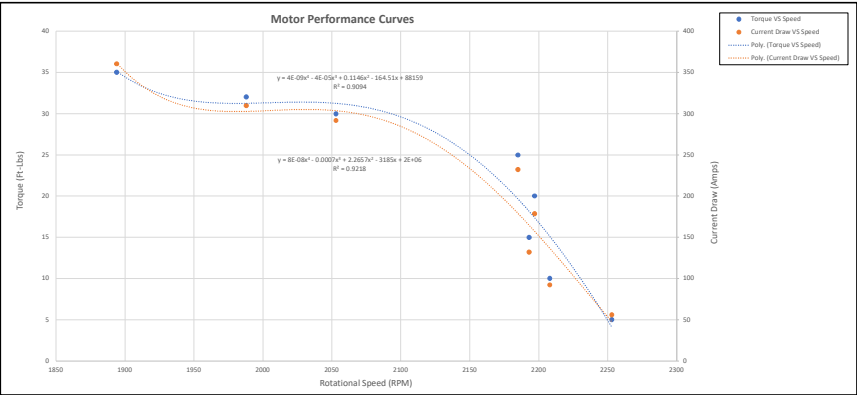
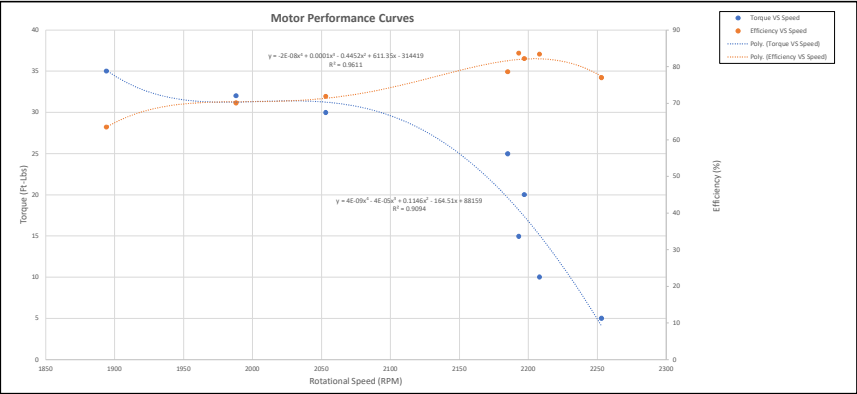
System Voltage (V): 48 (± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amperes)	Field Voltage (Volts)	Field Current (Amperes)	Total Current (Amperes)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5	2422	47.6	48.2	7.3	12.2	60.4	3.19	2.31	72.2
8	2380	47.2	72.5	7.3	12.17	84.67	4.7	3.63	77.1
10.01	2357	46.9	89.2	7.4	12.21	101.41	5.73	4.49	78.5
11.98	2335	46.6	106	7.4	12.22	118.22	6.75	5.33	78.9
15.05	2291	46.2	132.3	7.4	12.13	144.43	8.32	6.56	78.9
18.01	2141	45.7	160.5	7.4	12.26	172.76	9.96	7.69	77.2
20.01	2201	45.4	180.1	7.4	12.2	192.3	11.09	8.39	75.6
22	2142	45.1	199.1	7.4	12.25	211.35	12.16	8.97	73.8
25.04	2030	44.6	228.3	7.4	12.13	240.43	13.76	9.68	70.4



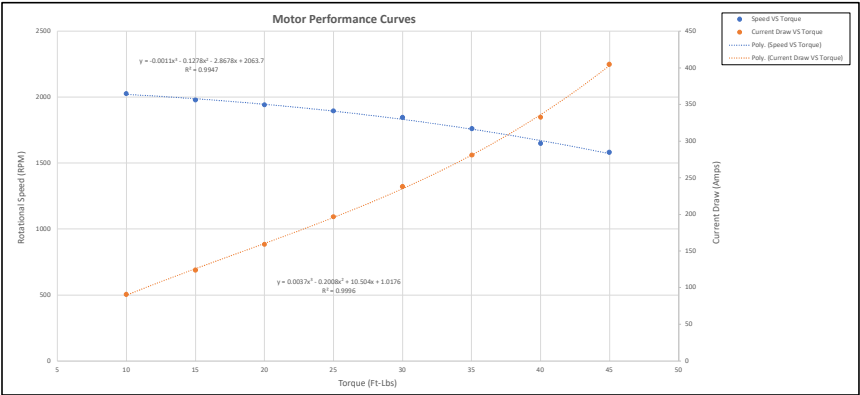
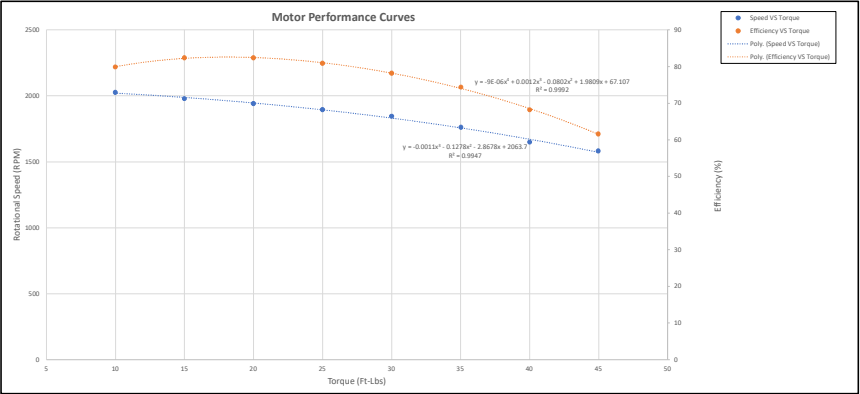
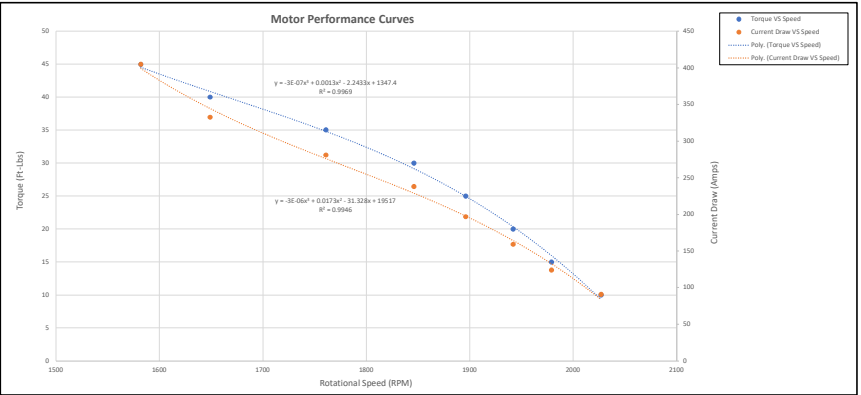
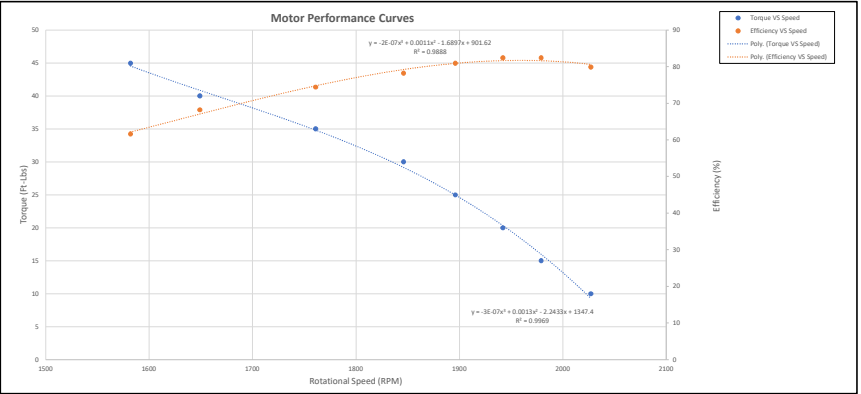
Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 48 (± 0.015)

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 (%)
5.01	2253	47.7	40.8	8.9	15.12	55.92	2.79	2.15	77
10.01	2206	47.4	77.4	9	15.07	92.47	5.05	4.21	83.4
14.97	2193	46.5	116.9	9	15.13	132.03	7.47	6.25	83.7
20.02	2197	45.7	163.3	9.1	15.19	178.49	10.19	8.37	82.2
24.98	2185	44.8	216.9	9.1	15.32	232.22	13.23	10.39	78.6
29.98	2053	43.5	276.5	9.2	15.2	291.7	16.3	11.72	71.9
32.02	1988	43.3	294.8	9.2	15.02	309.82	17.29	12.12	70.1
35.02	1894	42.6	345.2	9.2	15.19	360.39	19.88	12.63	63.5



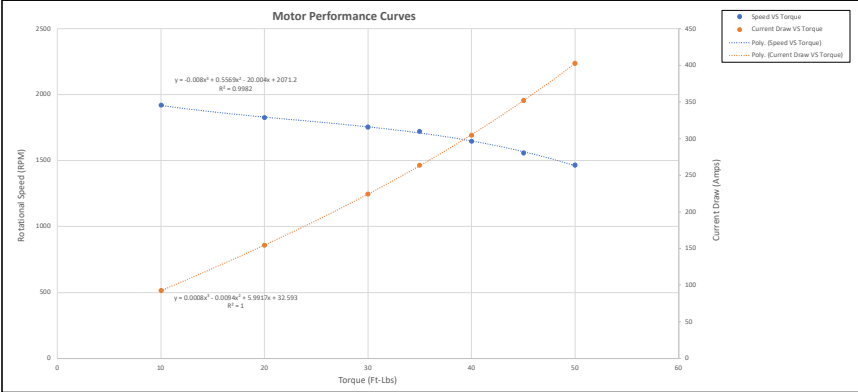
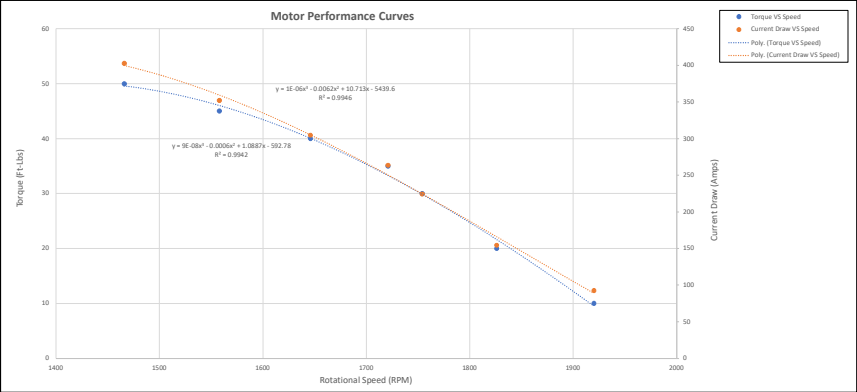
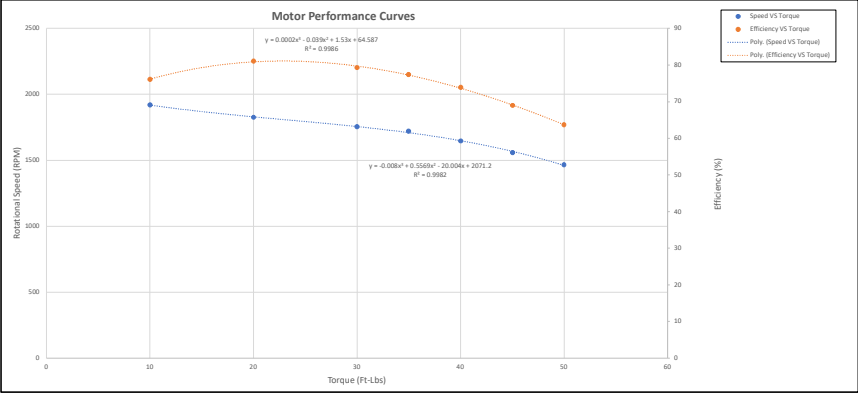
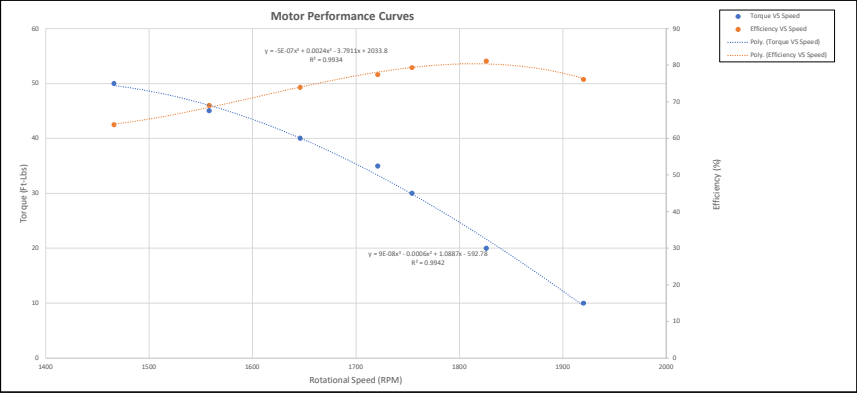
Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 48 (± 0.01%)

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 (%)
9.98	2027	47.2	70.6	13.3	20.14	90.74	4.83	3.85	79.9
14.99	1979	46.7	103.8	13.3	20.07	123.87	6.85	5.65	82.4
19.99	1942	46.2	139	13.4	20.12	159.12	8.97	7.39	82.4
24.99	1896	45.6	176.7	13.4	20.1	196.8	11.15	9.02	80.9
30	1846	44.9	217.9	13.5	19.99	237.89	13.49	10.54	78.2
35.02	1761	44.1	260.7	13.5	20.26	280.96	15.79	11.74	74.4
40	1649	43	313	13.6	19.63	332.63	18.41	12.56	68.2
44.97	1582	42	384.6	13.7	20.2	404.8	22	13.54	61.6



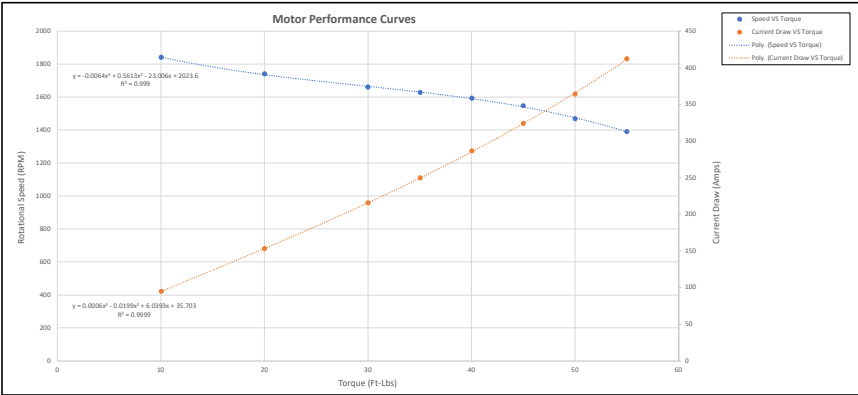
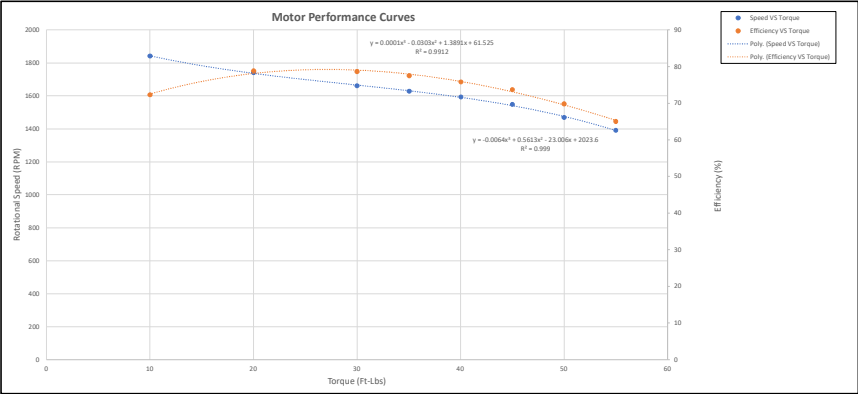
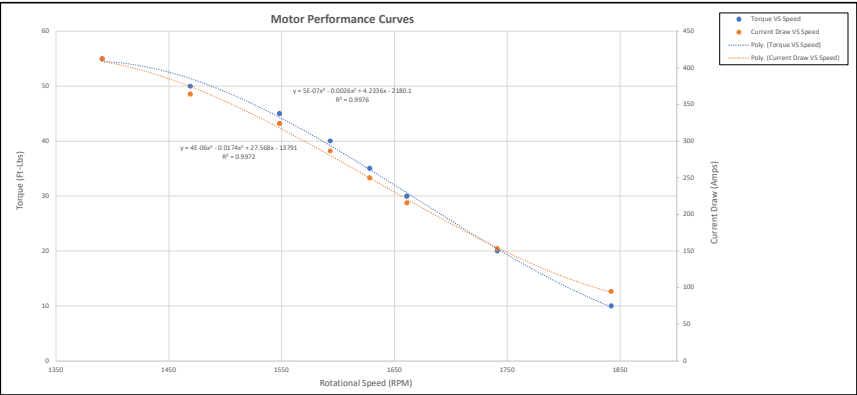
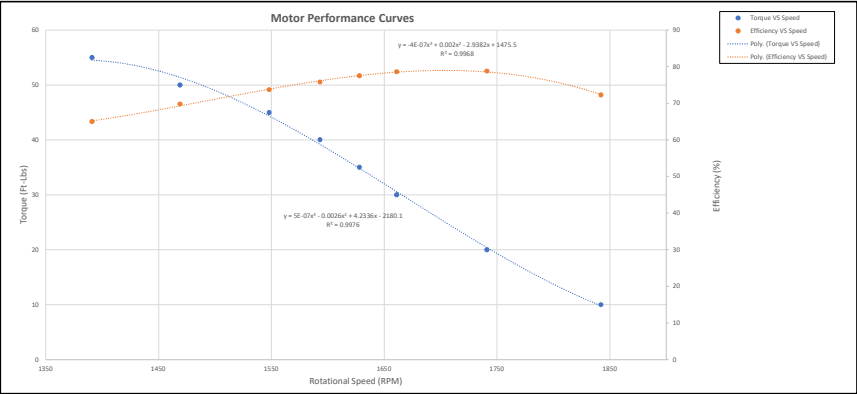
Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 48 (± 0.01%)

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 (%)
10.01	1920	47.2	67.4	16.1	25.07	92.47	4.81	3.66	76.1
20	1826	46.3	129.3	16.2	25.1	154.4	8.58	6.96	81.1
29.99	1754	45.2	199.2	16.4	25.05	224.25	12.62	10.01	79.3
34.97	1721	44.6	238.4	16.5	25.15	263.55	14.8	11.46	77.4
40.01	1646	43.8	279.4	16.7	25.2	304.6	16.98	12.54	73.9
45.02	1558	42.9	326.8	16.8	25.24	352.04	19.34	13.35	69
49.98	1466	42.2	377.3	16.9	25.27	402.57	21.9	13.95	63.7



Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 48 (t * 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 (%)
10.01	1842	47.3	65	18.5	29.94	94.94	4.86	3.51	72.3
20.04	1741	46.4	123.2	18.8	29.99	153.19	8.42	6.63	78.8
28.99	1661	45.4	185.7	19.1	29.94	215.64	12.08	9.49	78.6
35.04	1628	44.9	219.7	19.4	30.04	249.74	14.01	10.86	77.5
40.03	1593	44.3	256.6	19.7	29.98	286.58	16.03	12.14	75.8
45	1548	43.6	294.1	19.9	30.07	324.17	18	13.26	73.7
50	1469	42.9	334.5	20.2	29.75	364.25	20.03	13.99	69.8
54.99	1391	42.1	382.3	20.5	29.92	412.22	22.39	14.56	65



Engineering Performance Test Report
Performance Spec (PS) Number: 8
System Voltage (V): 48 (± 0.01%)

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 (%)
10	1727	47.3	62.1	24.4	40.06	102.16	5.25	3.29	62.7
20	1636	46.5	115.8	25.2	40.13	155.93	8.57	6.23	72.7
30.01	1556	45.7	171.9	25.9	40.07	211.97	11.91	8.89	74.7
35.01	1509	45.2	200.4	26.7	40.13	240.53	13.57	10.06	74.1
39.96	1470	44.7	231.1	27.4	40.03	271.13	15.31	11.18	73
44.99	1435	44.2	261	28.1	39.98	300.98	16.97	12.29	72.4
49.99	1393	43.7	293.1	28.8	40.21	333.31	18.71	13.26	70.8
54.97	1342	43.1	329.3	29.5	40.23	369.53	20.61	14.04	68.2
60	1290	42.4	366.1	30.2	39.85	405.95	22.44	14.74	65.7

