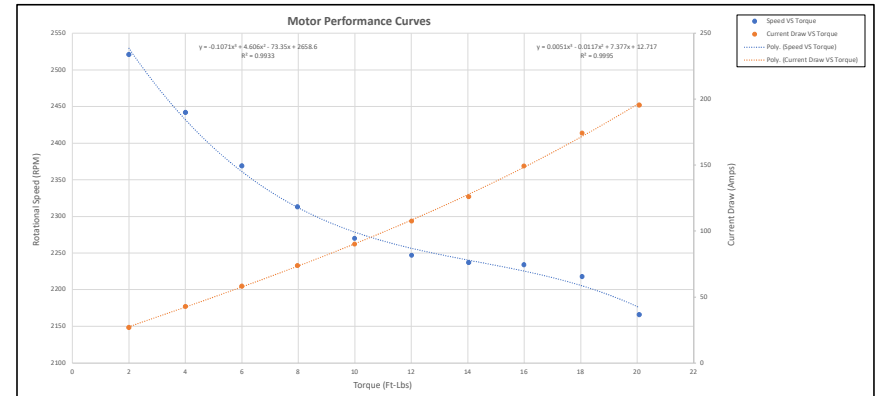
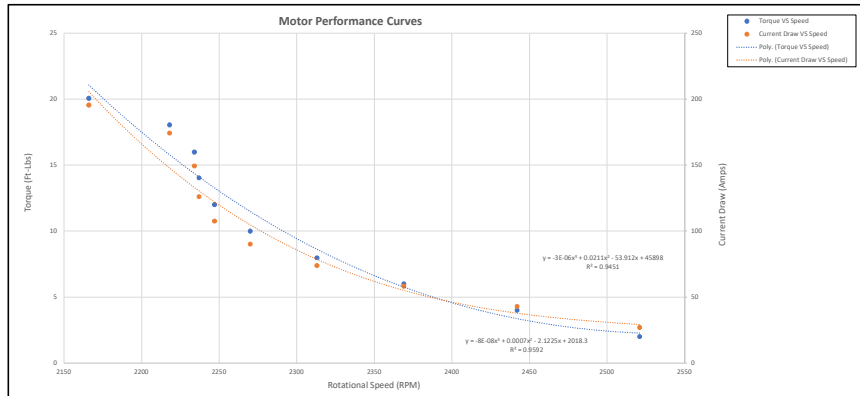
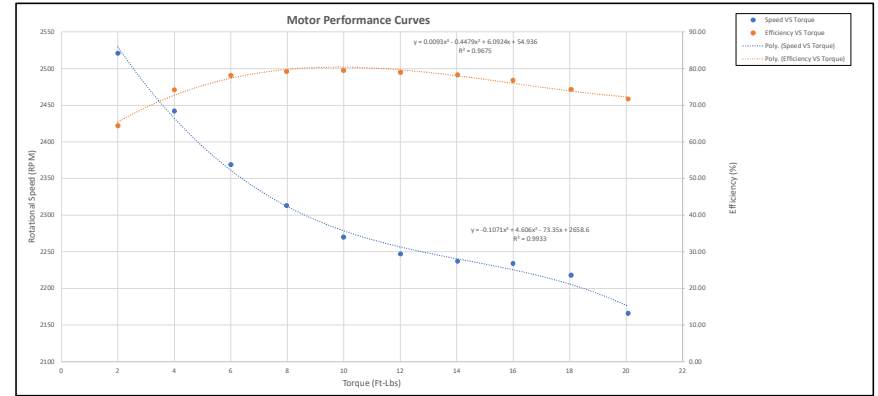
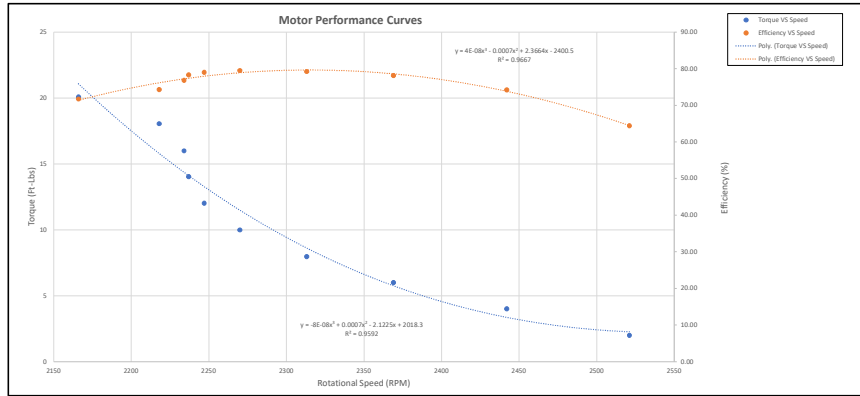


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 48 (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 (%)
2	2521	47.8	22.9	5	3.97	26.87	1.49	0.96	64.40
4	2442	47.5	28.9	4.9	3.96	42.26	2.5	1.86	74.20
6	2369	47.3	34.2	5	3.98	58.18	3.46	2.7	78.10
7.97	2313	47.1	39.9	4.9	3.95	73.85	4.43	3.51	79.20
9.99	2270	46.8	46.2	4.9	3.89	90.09	5.43	4.32	79.50
12.01	2247	46.5	53.6	4.9	3.99	107.59	6.48	5.12	79.00
14.03	2237	46.1	62.2	4.9	4.04	126.04	7.57	5.92	78.30
15.99	2234	45.6	72.3	4.9	4.01	149.31	8.91	6.84	76.80
18.05	2218	45.2	83.7	4.9	4.15	174.95	10.33	7.68	74.30
20.07	2166	44.8	97.7	4.9	3.81	195.51	11.55	8.28	71.20

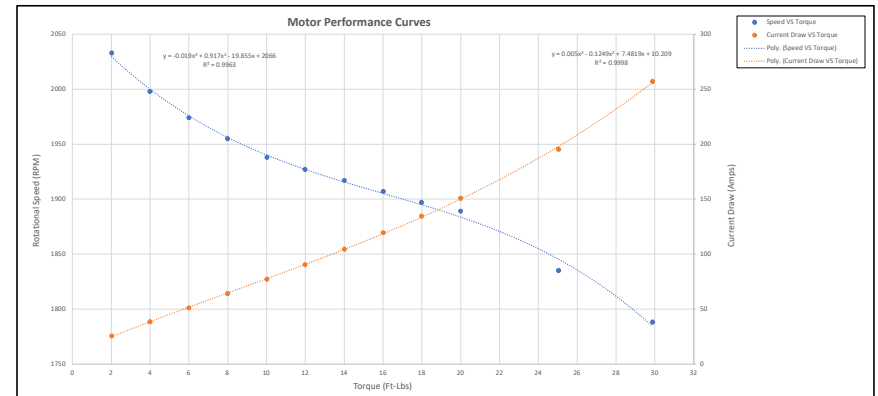
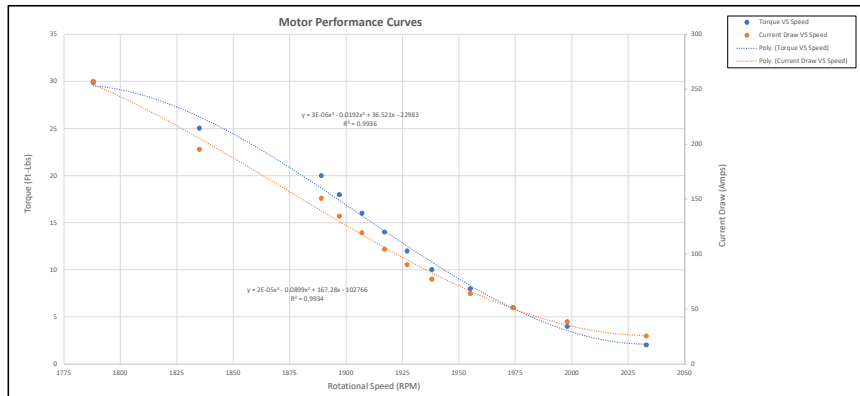
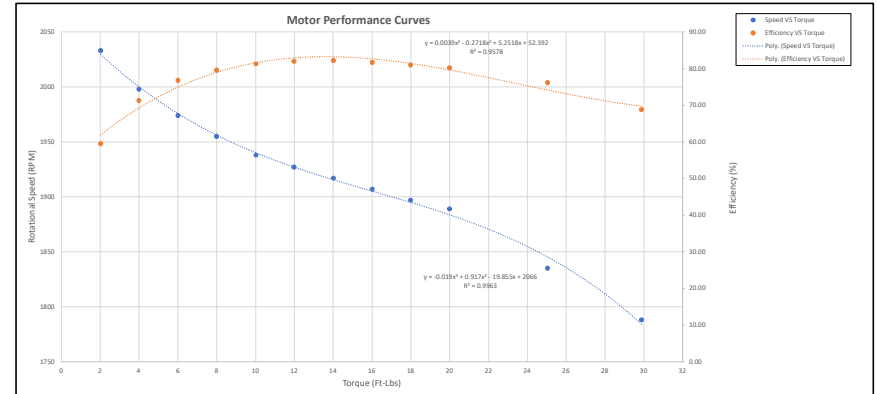
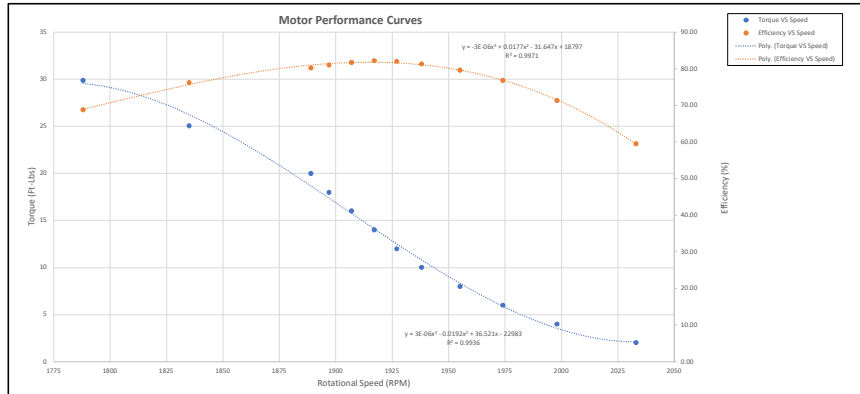


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 48 - (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 (%)
2.02	2033	47.8	19.5	7.8	6	25.5	1.31	0.78	59.50
3.99	1998	47.6	32.8	7.8	6.04	38.44	2.13	1.52	71.30
6	1974	47.5	45.1	7.8	5.98	51.08	2.93	2.25	76.80
7.99	1955	47.2	58	7.8	5.98	63.98	3.73	2.97	79.60
10.02	1938	47	71.2	7.8	5.95	77.15	4.55	3.7	81.30
11.98	1922	46.8	84.4	7.8	6.01	90.41	5.36	4.39	82.00
14.01	1917	46.6	98.5	7.8	5.92	104.42	6.22	5.11	82.20
16.01	1907	46.4	113.5	7.8	5.97	119.47	7.12	5.82	81.70
17.98	1897	46.2	128.6	7.8	5.98	134.58	8.02	6.49	81.00
19.99	1889	45.9	144.8	7.8	6	150.8	8.97	7.19	80.20
25.04	1835	45	189.4	7.8	5.91	195.31	11.48	8.75	76.20
29.88	1788	43.7	251.2	7.9	5.97	257.17	14.78	10.17	68.80

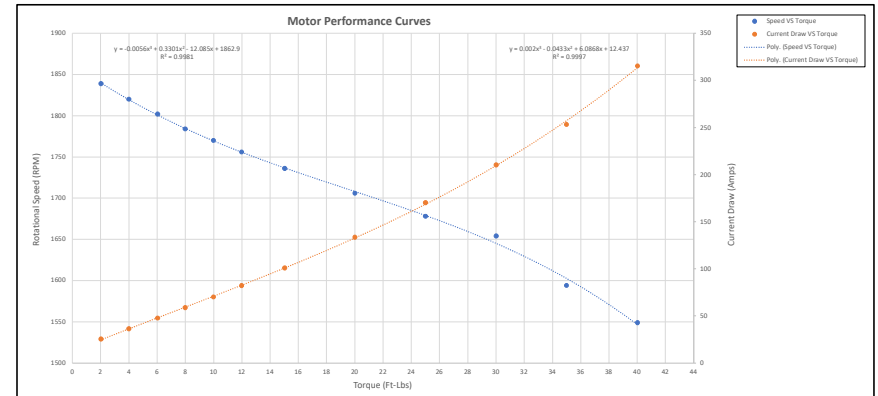
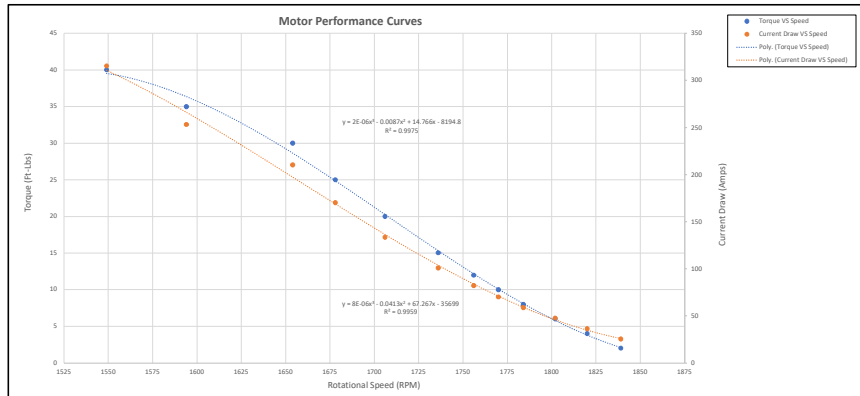
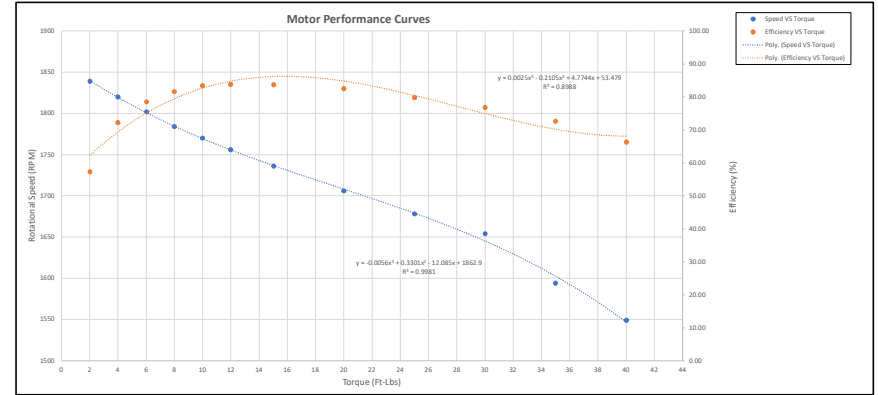
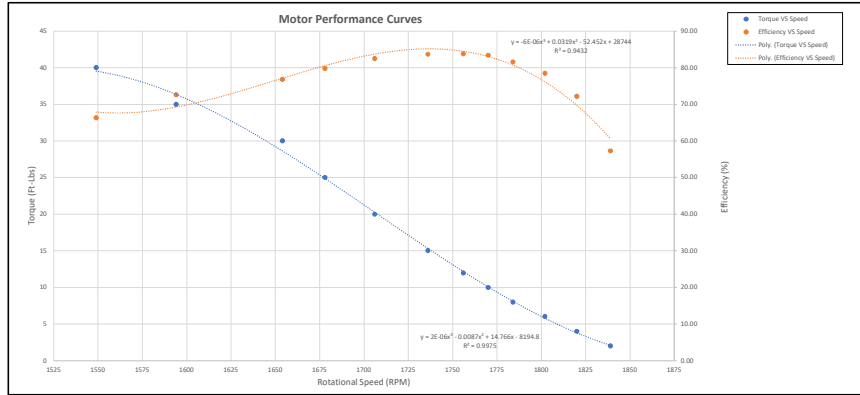


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 48 (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 (%)
2.02	1839	47.9	17.4	10.7	8.05	25.45	1.23	0.71	57.30
4	1820	47.7	28.2	10.7	8.08	36.28	1.92	1.39	72.20
6.03	1802	47.5	39.6	10.7	8.03	47.63	2.64	2.07	78.50
7.99	1784	47.3	50.7	10.7	8.06	58.76	3.33	2.72	81.60
9.99	1770	47.2	62	10.7	8.07	70.07	4.04	3.37	83.40
11.98	1756	47	74	10.7	8.08	82.08	4.76	4	83.80
15.03	1736	46.7	92.9	10.6	8.03	100.93	5.93	4.97	83.70
20	1706	46.2	125.4	10.6	8.11	133.51	7.88	6.5	82.50
25.01	1678	45.5	162.2	10.6	8.1	170.3	10.02	7.99	79.80
30.01	1654	44.9	202.5	10.6	7.84	210.34	12.31	9.45	76.80
34.99	1594	44.2	245.1	10.6	8.11	253.21	14.63	10.62	72.60
40.02	1549	43	307.4	10.7	8.01	315.41	17.81	11.8	66.30

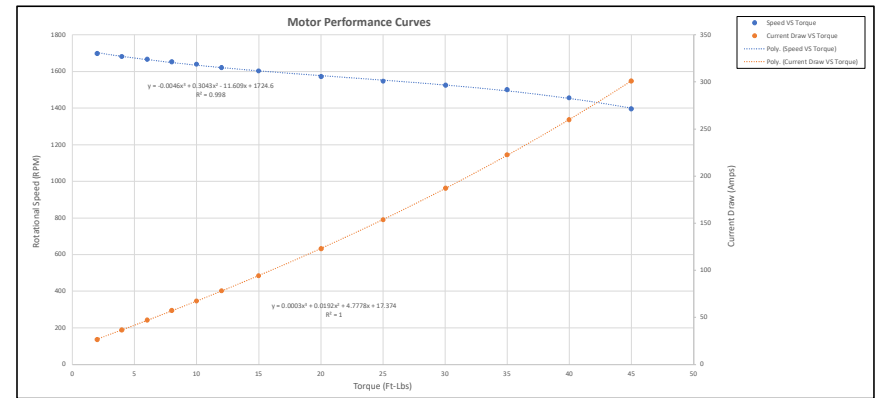
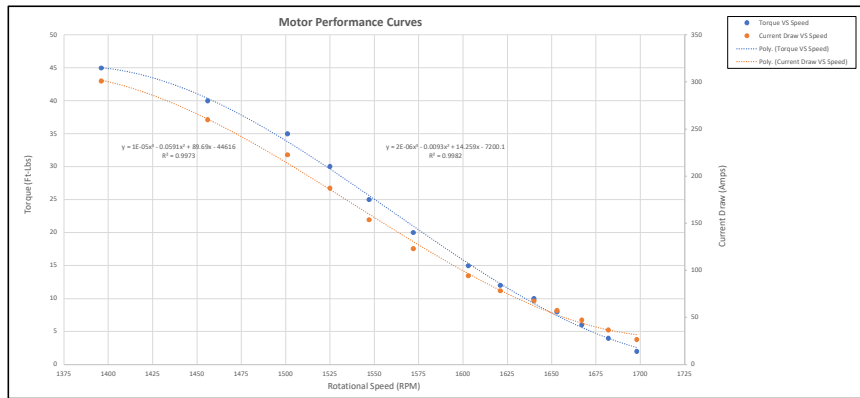
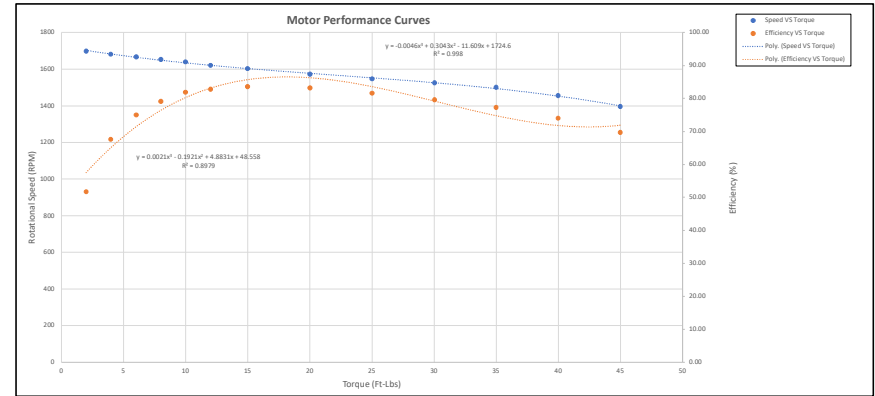
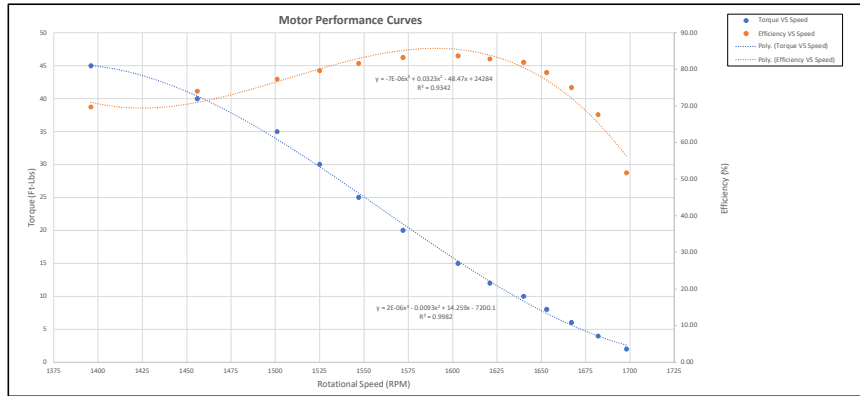


Engineering Performance Test Report

Performance Spec (PS) Number: 12

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 (%)
1.99	1698	47.9	16.5	13.4	10.08	26.58	1.24	0.64	51.70
3.97	1682	47.7	26.6	13.4	10.07	36.67	1.86	1.27	67.60
6.02	1667	47.6	37.1	13.4	10.06	47.16	2.55	1.91	75.00
8	1653	47.4	47.3	13.4	10.03	57.33	3.18	2.52	79.10
9.98	1640	47.2	57.3	13.3	10.09	67.39	3.81	3.12	81.90
12	1621	47.1	68.1	13.3	10.08	78.18	4.46	3.77	82.80
14.98	1603	46.9	84.2	13.3	10.04	94.24	5.47	4.57	83.60
20.01	1572	46.4	112.8	13.3	10.05	122.85	7.2	5.99	83.20
25	1547	45.9	143.7	13.2	9.95	153.65	9.03	7.36	81.60
30.03	1525	45.4	172.2	13.2	9.97	182.17	10.96	8.72	79.60
34.98	1501	44.8	212.5	13.2	10.15	222.65	12.94	10	77.30
39.97	1456	44.2	269.7	13.1	10.15	259.85	14.98	11.08	74.00
44.97	1396	43.5	290.7	13.1	10.2	300.9	17.14	11.95	69.70

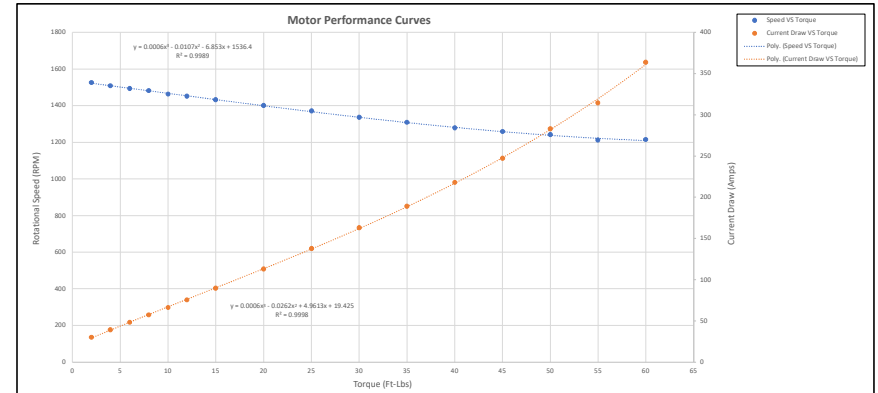
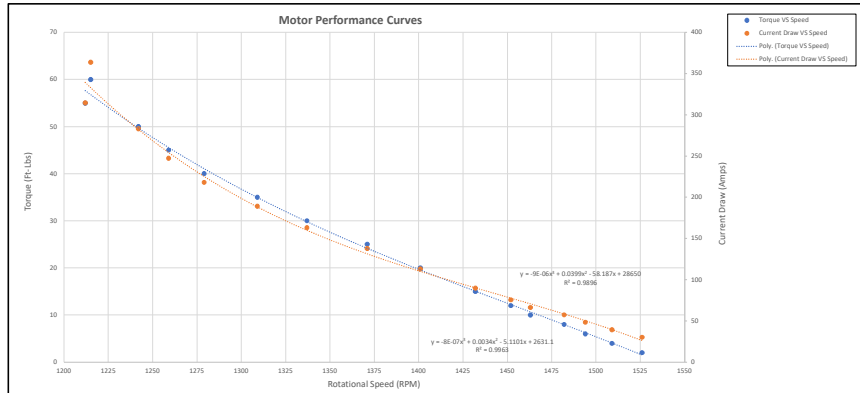
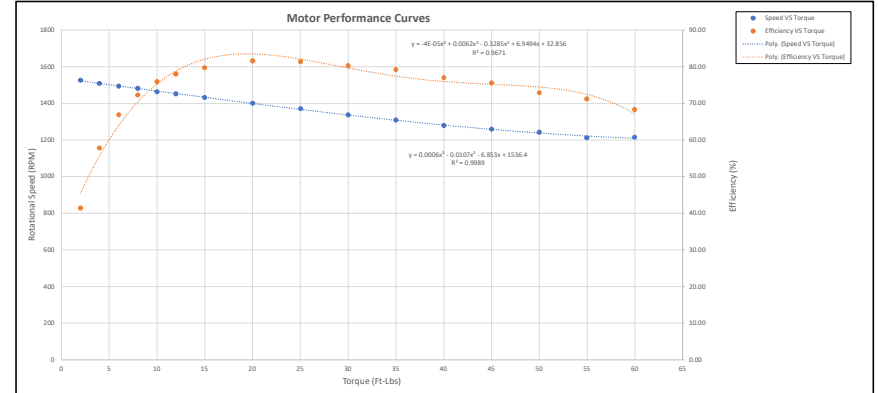
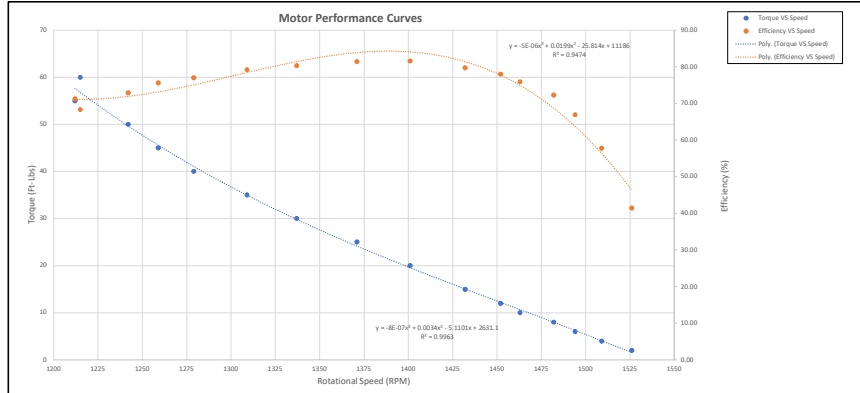


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage [V]: 48 - (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 (%)
1.99	1526	47.9	15	21.3	15.1	30.1	1.4	0.58	41.40
3.97	1509	47.8	24	21.3	15.1	39.1	1.97	1.14	57.80
5.99	1494	47.6	33.2	21.3	15.11	48.31	2.55	1.7	66.90
7.98	1482	47.5	42.2	21.2	15.1	57.3	3.11	2.25	72.30
10	1463	47.3	51.2	21.2	15.07	66.27	3.67	2.79	75.90
11.97	1452	47.2	60.3	21.1	15.11	75.41	4.24	3.31	78.00
14.98	1432	47	74.6	21.1	15.03	89.63	5.12	4.08	79.70
20	1401	46.6	97.8	21	15.08	112.88	6.54	5.33	81.60
25.02	1371	46.3	122.6	21	15.14	137.74	8.03	6.53	81.40
30	1337	45.9	147.8	20.9	15.2	163	9.50	7.64	80.30
34.99	1309	45.4	173.9	20.8	15.21	189.11	11.01	8.72	79.20
40.01	1279	45	202.8	20.7	15.16	217.96	12.66	9.75	77.00
45	1259	44.5	232.3	20.6	14.96	247.26	14.27	10.79	75.60
50	1242	44	268.2	20.6	14.95	283.15	16.22	11.83	72.90
54.97	1212	43.4	299.3	19	15.3	314.6	17.82	12.69	71.20
59.97	1215	42.7	348.9	19.1	14.84	363.74	20.33	13.88	68.30

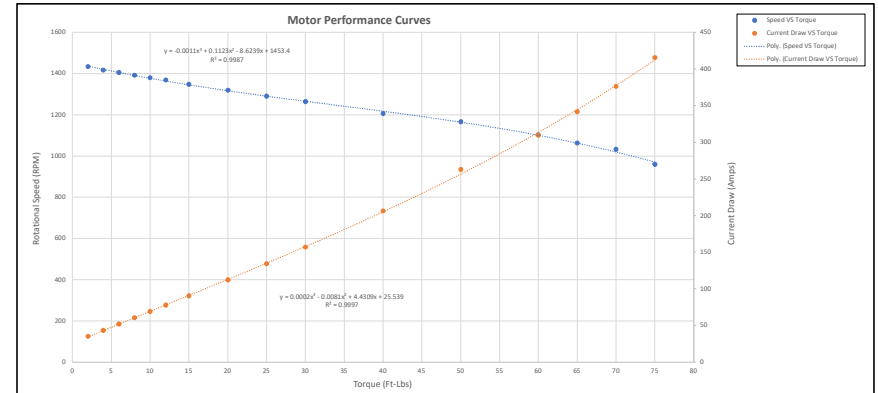
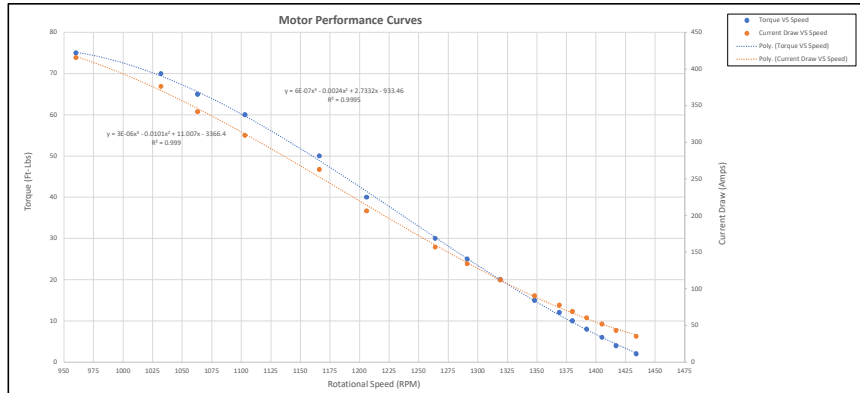
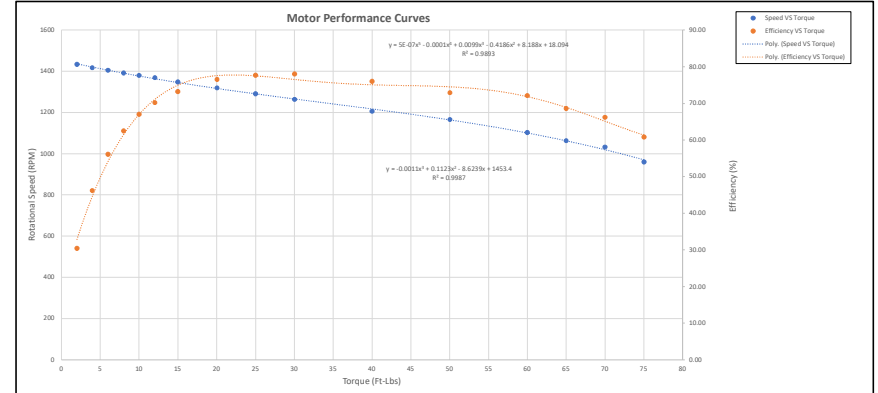
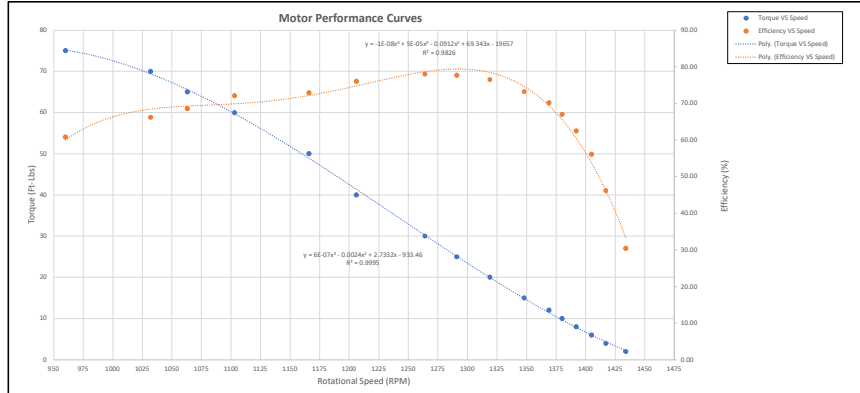


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage [V]: 48 - (V ± 0.015)

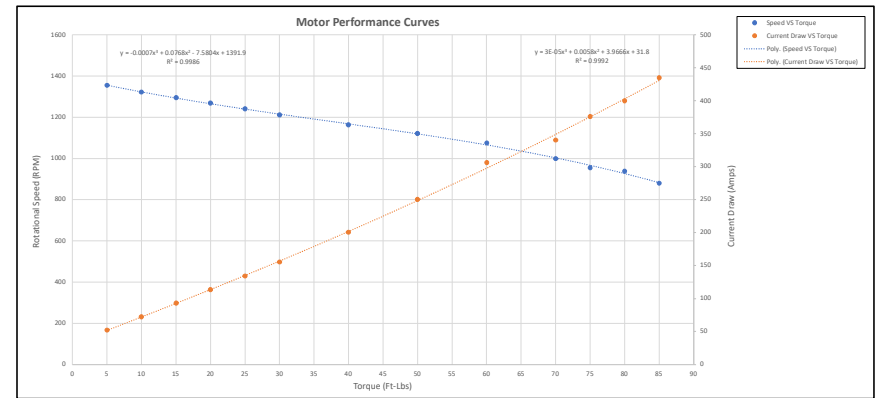
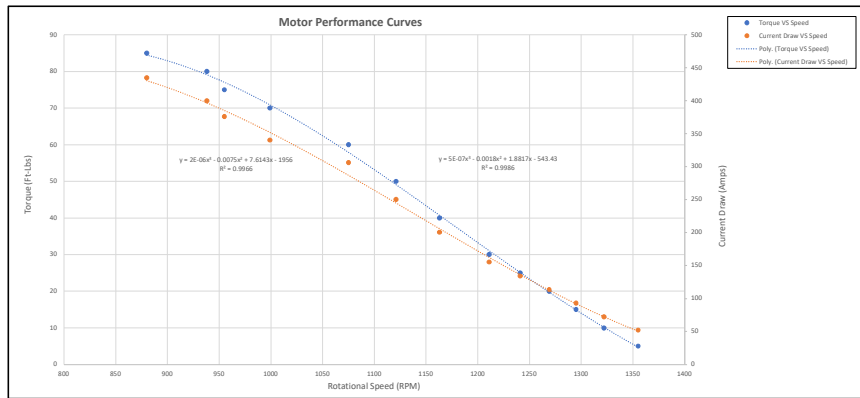
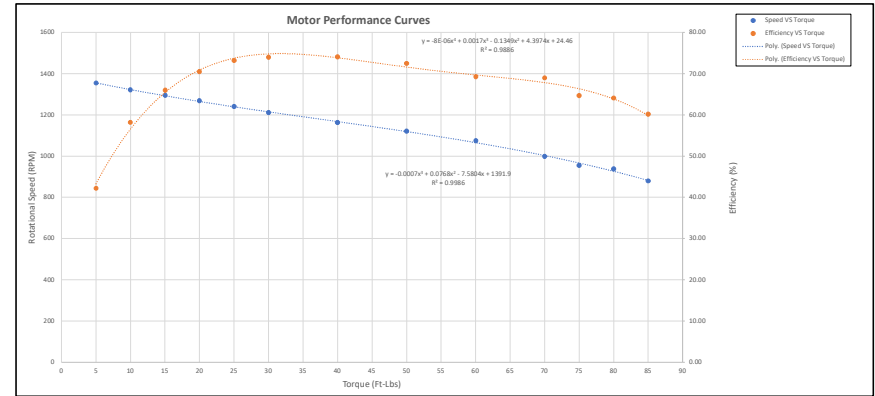
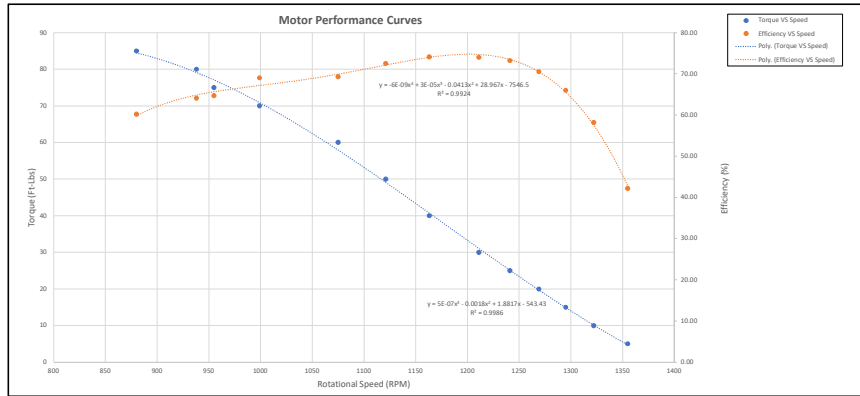
Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2	1434	47.9	15	30.8	20.15	35.15	1.8	0.55	30.40
3.96	1417	47.8	23.2	30.7	20.14	43.34	2.31	1.07	46.20
5.99	1405	47.7	31.7	30.7	20.17	51.87	2.86	1.6	56.10
8	1392	47.5	40.3	30.6	20.12	60.42	3.39	2.12	62.50
10	1380	47.4	48.9	30.4	20.13	69.03	3.92	2.63	67.00
12.03	1369	47.2	57.6	30.3	20.18	77.78	4.47	3.14	70.20
14.99	1348	47.1	70.4	30.2	20.12	90.52	5.26	3.85	73.20
20.03	1319	46.7	92	30.1	20.15	112.15	6.57	5.03	76.50
24.99	1291	46.4	114.1	30	20.11	134.91	7.91	6.14	77.70
30.02	1264	46.1	136.9	29.8	20.06	156.95	9.36	7.32	78.00
40	1206	45.2	186.1	29.7	20.17	206.27	12.09	9.19	76.00
50.02	1166	44.4	242.6	29.5	20.15	262.75	15.23	11.11	72.90
59.99	1109	43.3	289.3	26.1	20.11	309.41	17.48	12.6	72.10
65	1063	42.9	331.6	26.4	20.04	341.64	19.18	13.15	68.60
69.99	1032	42	356	26.7	20.32	376.32	20.77	13.76	66.20
75.02	960	41.2	395.6	26.9	20.02	415.62	22.57	13.71	60.80



Engineering Performance Test Report

Performance Spec (PS) Number: 12
 System Voltage (V): 48 (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 (%)
5.01	1355	47.7	27.1	39.6	25.09	52.19	3.06	1.29	42.20
9.98	1322	47.4	47.2	39.3	25.1	72.3	4.32	2.51	58.20
15.02	1295	47.1	68.1	39	25.04	93.14	5.61	3.7	66.00
19.98	1269	46.8	88.4	38.7	25.1	113.5	6.85	4.83	70.50
25.01	1241	46.5	109.1	38.3	25	134.1	8.08	5.91	73.20
30.01	1211	46.1	130.4	38	25.08	155.48	9.34	6.92	74.00
39.99	1163	45.4	175.6	37.6	24.98	200.58	11.95	8.86	74.10
49.99	1121	44.6	225.4	37.2	24.89	250.29	14.72	10.67	72.50
60.03	1075	43.8	281.2	36.8	25.09	306.29	17.73	12.29	69.30
70.01	999	42.0	315.5	33.8	24.89	340.39	19.20	13.31	69.00
75	955	42.4	351	34.4	25	376	21.09	13.64	64.70
80	938	42	374.7	35	25.19	399.89	22.29	14.29	64.10
85	880	40.9	409.7	35.6	25.15	434.85	23.64	14.24	60.20

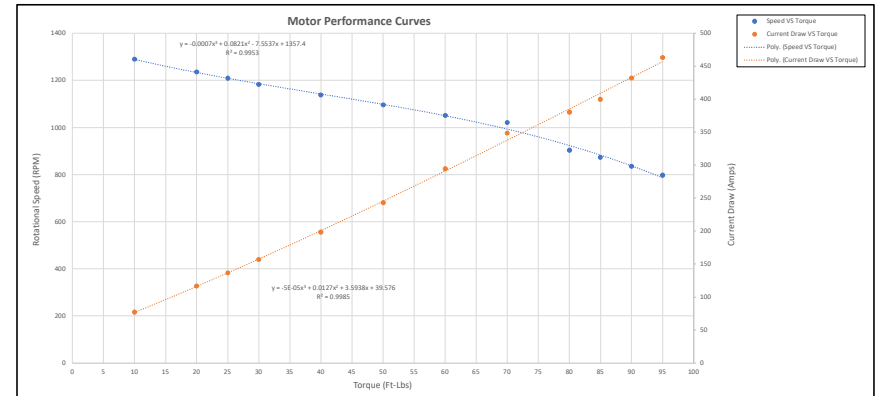
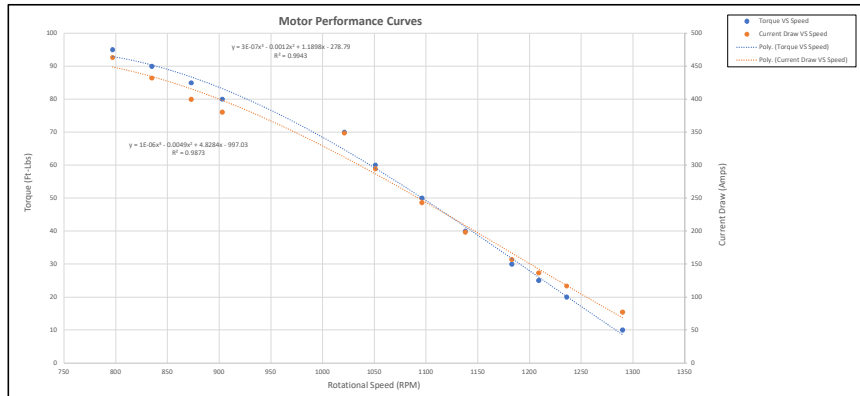
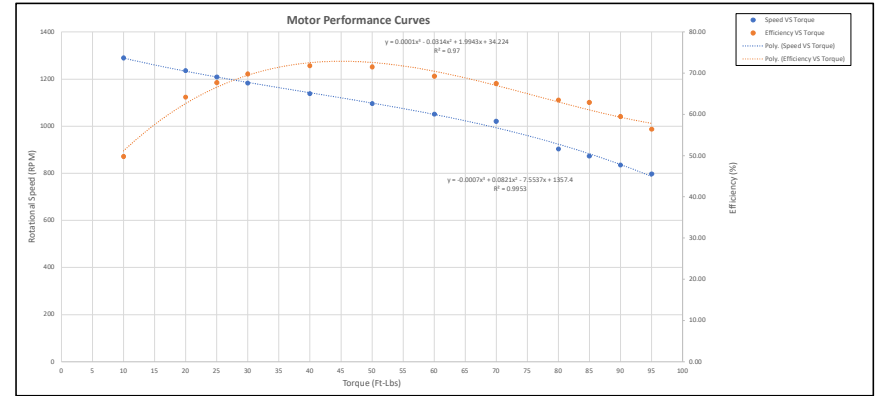
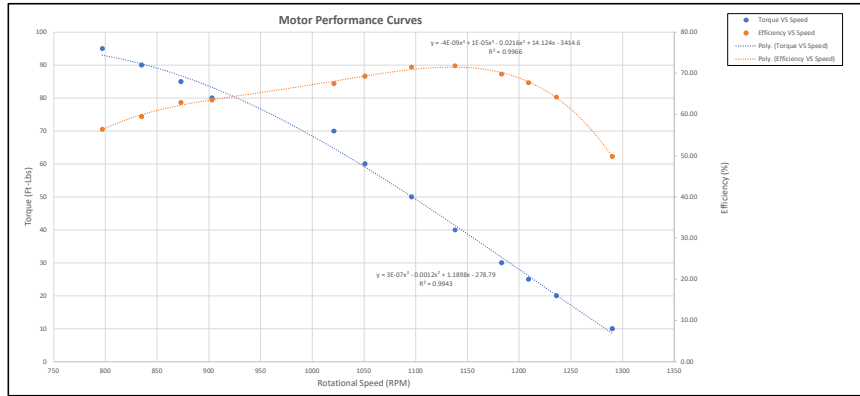


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 48 (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 (%)
30	1290	47.4	47.3	47.8	29.97	77.27	4.93	2.45	49.80
19.99	1236	46.8	46.7	47	29.98	116.68	7.33	4.71	64.20
25.02	1109	46.5	106.7	46.2	29.99	136.69	8.51	5.76	67.70
29.98	1183	46.2	126.8	45.5	30.01	156.81	9.68	6.75	69.80
39.98	1138	45.5	168.4	44.6	29.91	198.31	12.07	8.67	71.80
50.03	1096	44.9	213.3	43.8	29.97	243.27	14.59	10.44	71.50
60.02	1051	44.1	264.3	42.9	30.1	294.4	17.34	12.01	69.30
69.98	1021	43.3	318.6	42	29.98	348.58	20.17	13.61	67.50
80.01	903	42.4	350.2	43.1	30.13	380.33	21.65	13.76	63.50
84.97	873	41.7	369.8	44.2	29.96	399.76	22.44	14.12	62.90
89.99	835	41.3	402	45.2	30.01	432.01	24.07	14.31	59.50
95.01	797	40.8	433.3	46.2	29.89	463.19	25.56	14.42	56.40

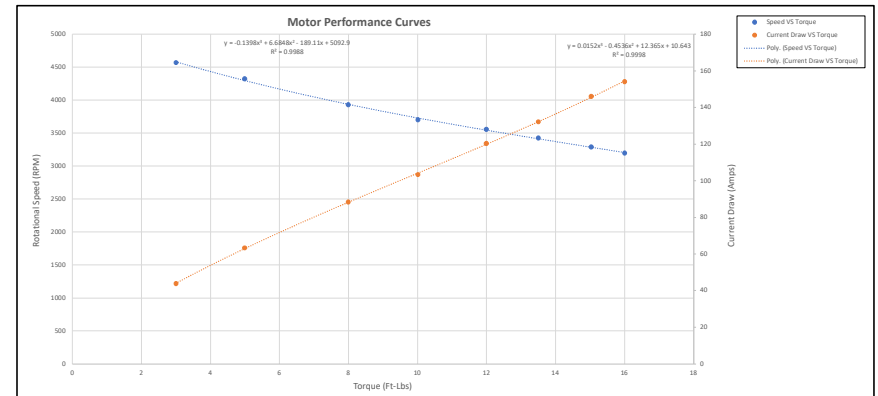
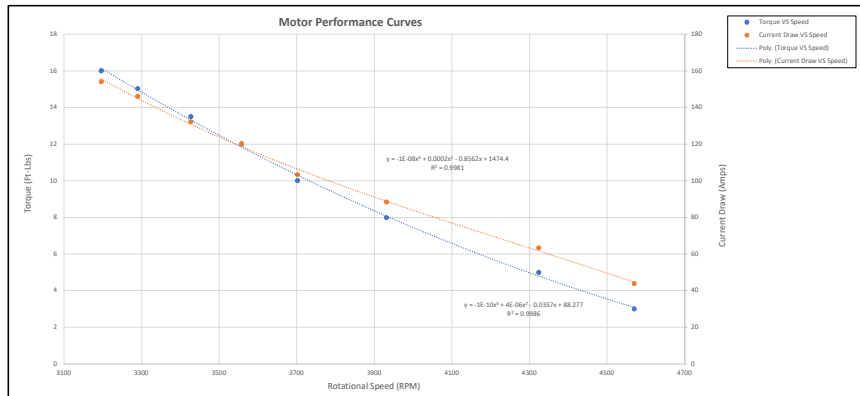
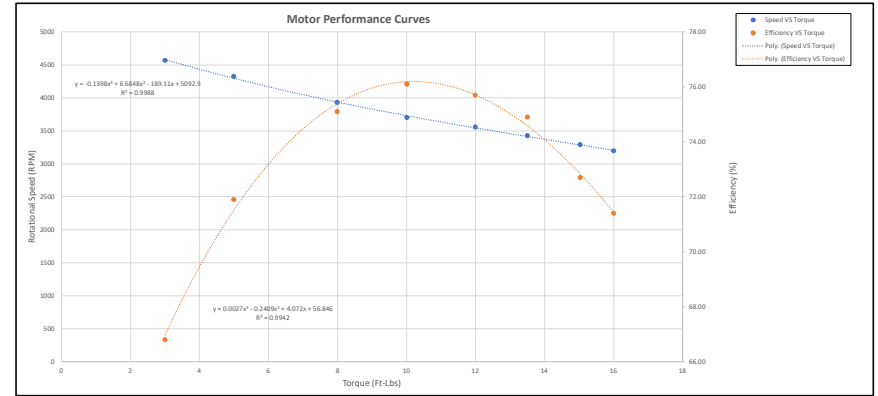
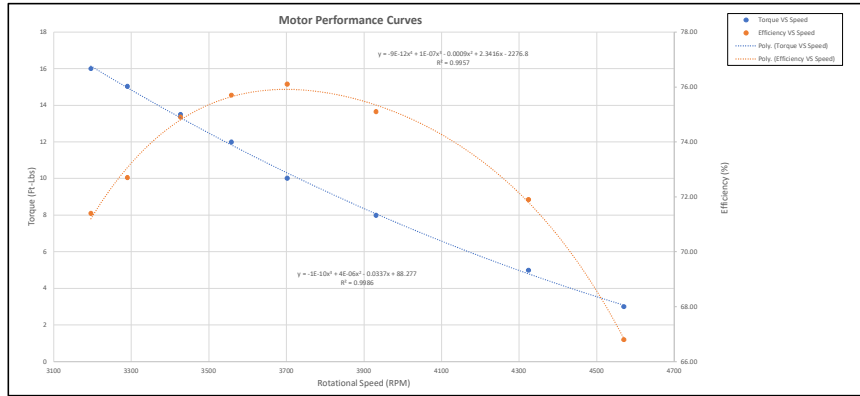


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 72 - (V ± 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 (%)
3	4570	71	40.9	4	2.95	43.85	3.91	2.61	66.80
4.99	4324	70.3	60.8	4	2.95	63.35	5.71	4.11	71.90
7.99	3931	69.4	85.4	4	2.97	88.37	7.96	5.98	75.10
10.01	3702	68.8	100.4	4	2.93	103.33	9.27	7.05	76.10
11.99	3558	68.1	117.4	4	2.92	120.32	10.74	8.13	75.70
13.5	3427	67.8	139.2	4	2.97	132.17	11.77	8.81	74.90
15.03	3290	67.4	143.1	4	2.97	146.07	12.95	9.41	72.70
16	3196	67.3	151.2	4	2.92	154.12	13.65	9.74	71.40

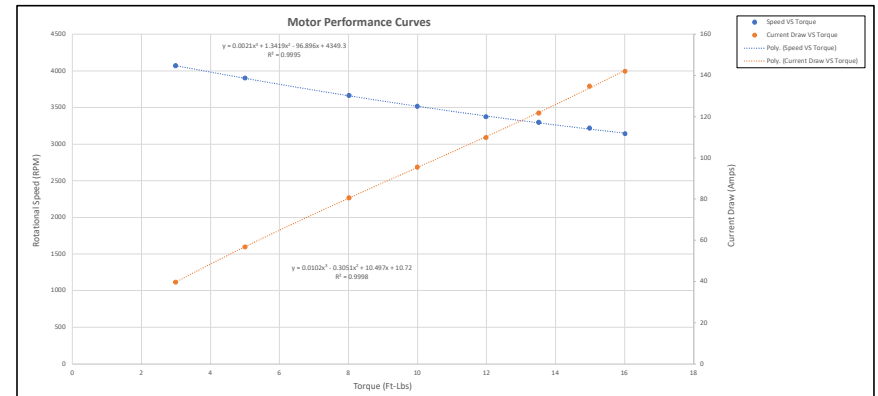
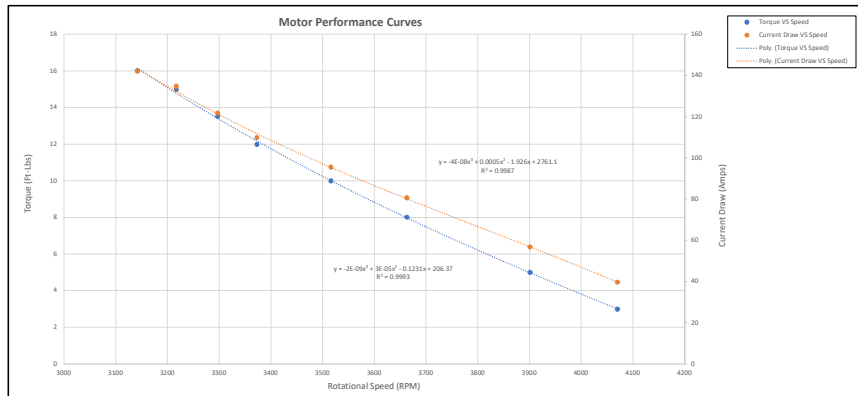
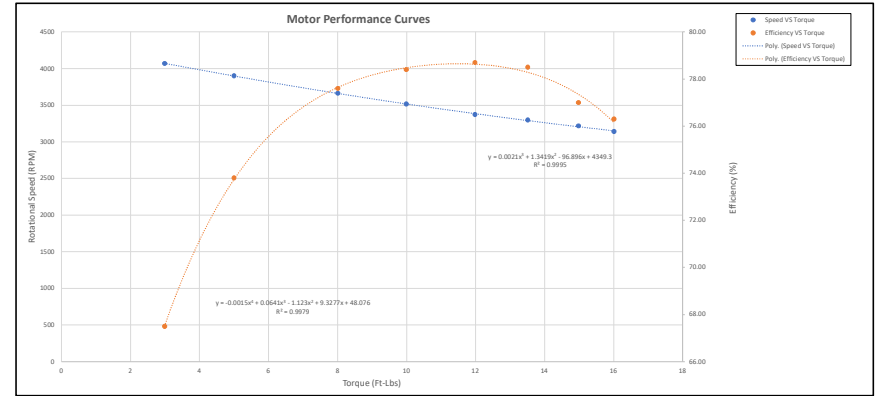
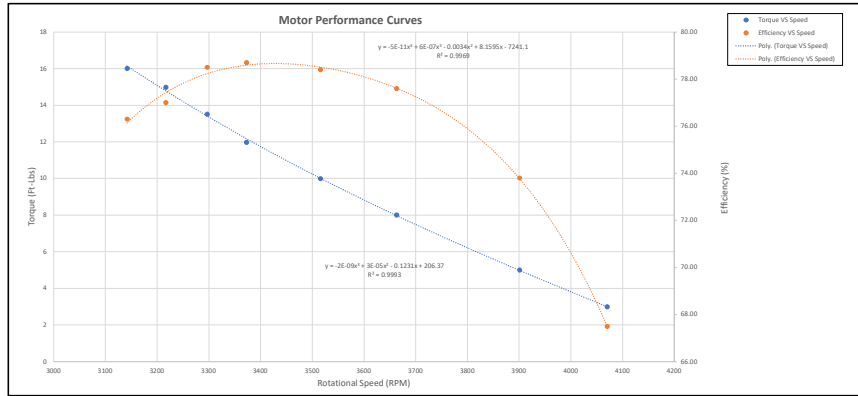


Engineering Performance Test Report

Performance Spec (PS) Number: 12

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 (%)
2.99	4070	71.3	35.7	5.3	3.97	39.67	3.43	2.32	67.50
5	3901	70.6	32.8	5.3	3.97	56.71	5.03	3.71	73.80
8.01	3663	69.8	26.6	5.3	3.98	80.58	7.2	5.59	77.60
9.99	3516	69.2	21.6	5.3	3.93	95.53	8.53	6.69	78.40
11.98	3373	68.7	165.9	5.3	3.95	109.85	9.78	7.77	78.70
13.51	3297	68.3	117.8	5.3	3.91	121.71	10.8	8.48	78.50
14.98	3217	67.8	130.8	5.3	3.97	134.77	11.92	9.18	77.00
16.01	3142	67.6	138.1	5.3	3.92	142.02	12.54	9.58	76.30

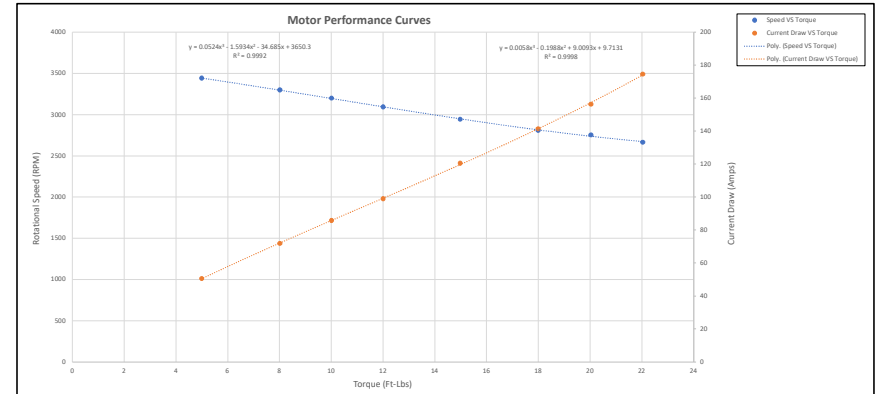
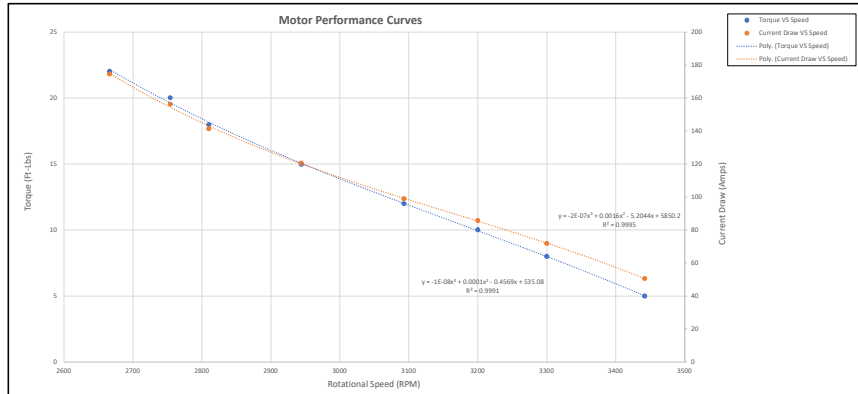
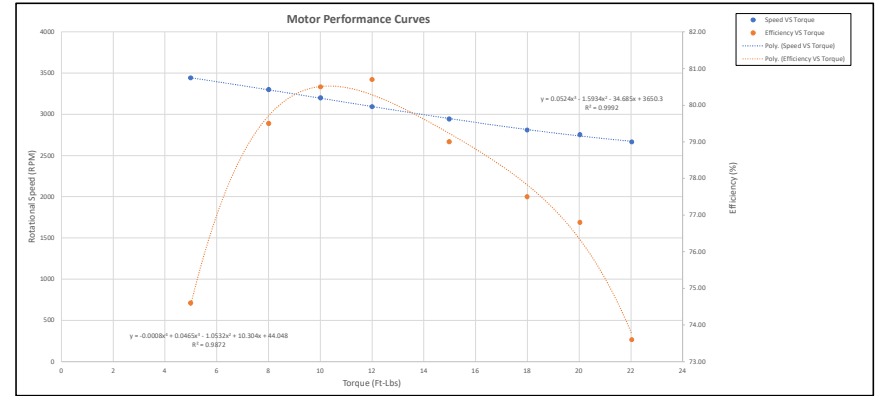
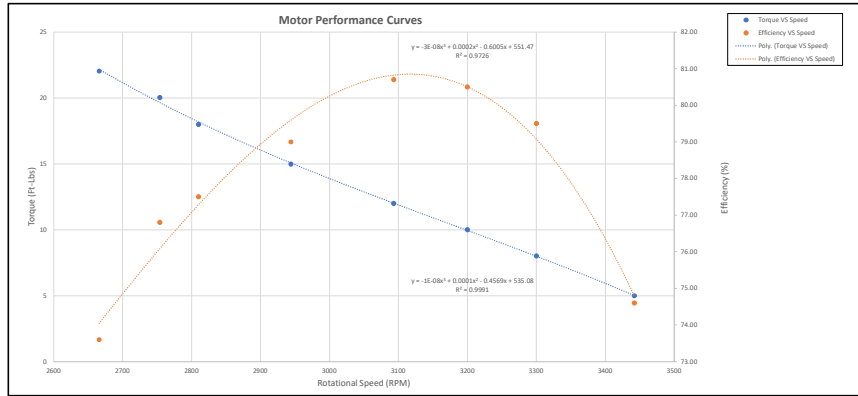


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 72 - (V ± 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 (%)
4.99	3442	70.9	45.6	6.8	4.99	50.59	4.38	3.27	74.60
8.01	3200	70.3	66.9	6.8	4.98	71.98	6.33	5.09	70.50
10.01	3100	69.6	80.8	6.8	5.01	85.81	7.58	6.11	69.50
12	3093	69.1	94	6.8	4.97	98.97	8.75	7.07	80.70
14.98	2944	68.3	115.6	6.8	4.96	120.56	10.63	8.4	79.00
17.99	2810	67.7	136.4	6.8	5.03	141.43	12.42	9.62	77.50
20.03	2754	67.2	151.4	6.8	4.97	156.37	13.68	10.5	76.80
22.03	2666	66.6	169.6	6.8	5	174.6	15.2	11.19	73.60

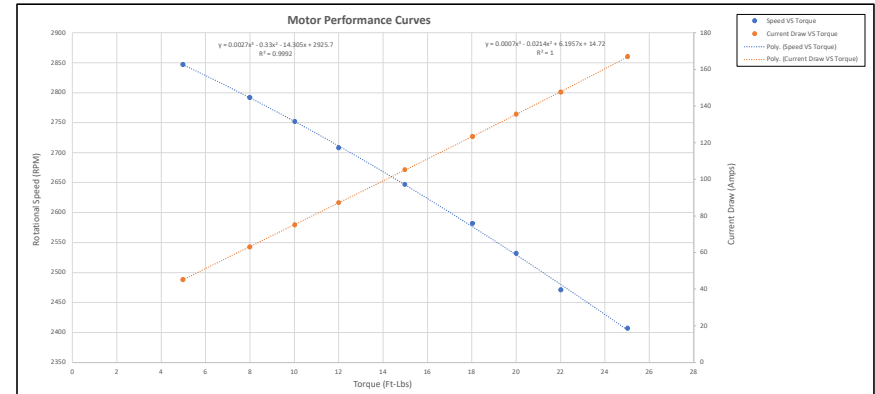
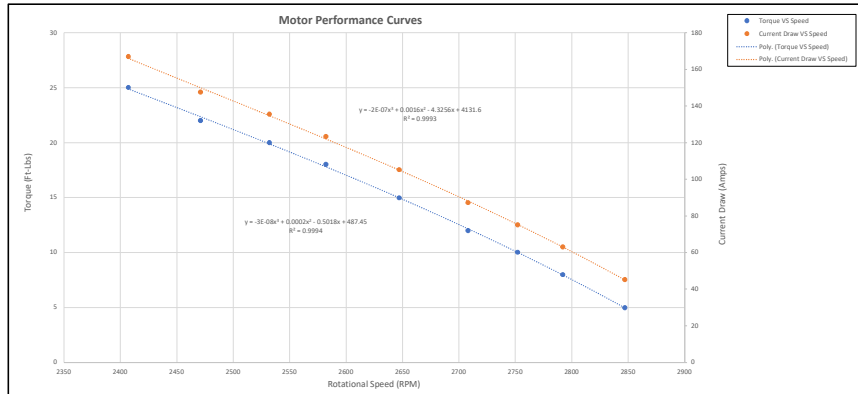
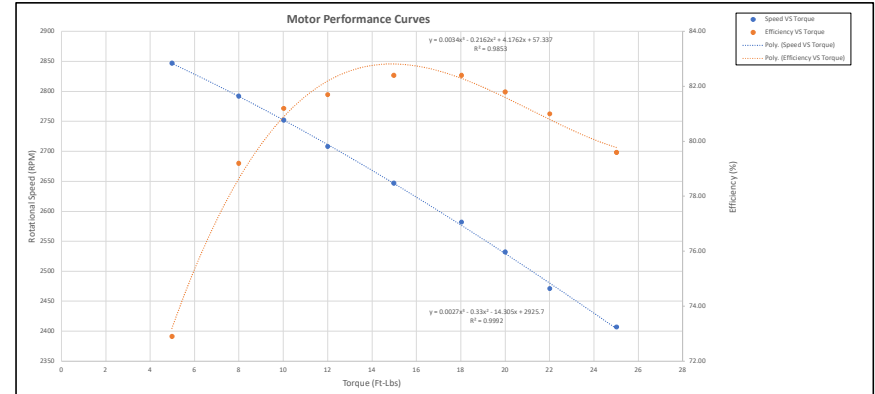
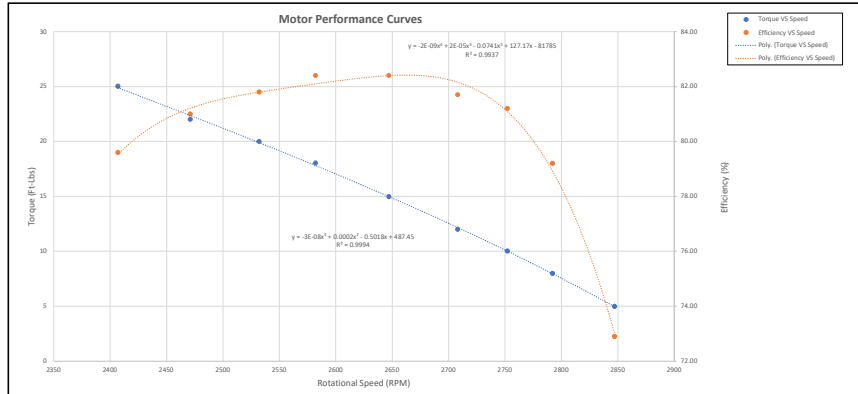


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 72 - (V ± 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 (%)
4.98	2847	71.2	37.7	10.5	7.52	45.22	3.7	2.7	72.90
7.99	2792	70.6	35.5	10.5	7.59	43.99	5.36	4.24	79.20
10.02	2752	70.2	37.6	10.5	7.52	45.12	6.47	5.25	81.20
12	2708	69.9	39.7	10.5	7.55	47.25	7.57	6.19	81.70
14.98	2647	69.2	37.7	10.5	7.52	45.22	9.17	7.55	82.40
18.03	2582	68.6	35.8	10.5	7.55	43.95	10.75	8.86	82.40
20	2532	68.1	32.8	10.5	7.51	43.51	11.79	9.64	81.80
22.01	2471	67.6	34.0	10.5	7.58	44.58	12.78	10.36	81.00
25.02	2407	66.9	35.4	10.5	7.56	44.96	14.4	11.47	79.60

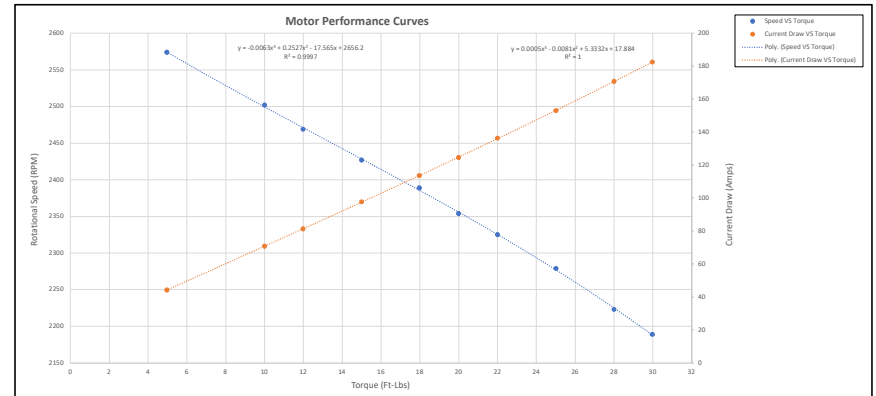
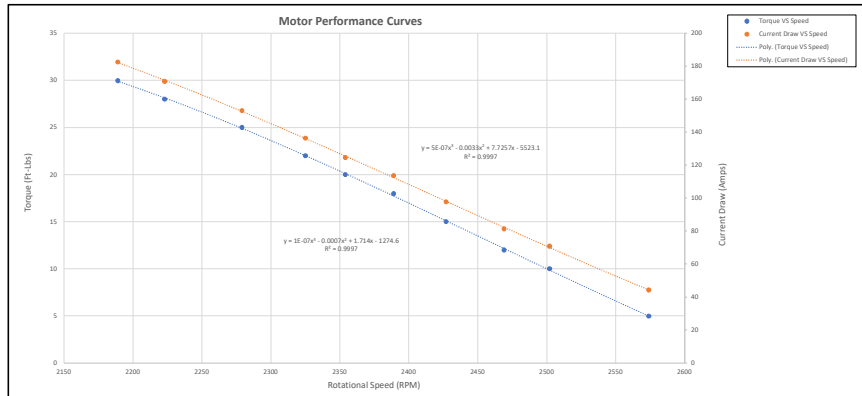
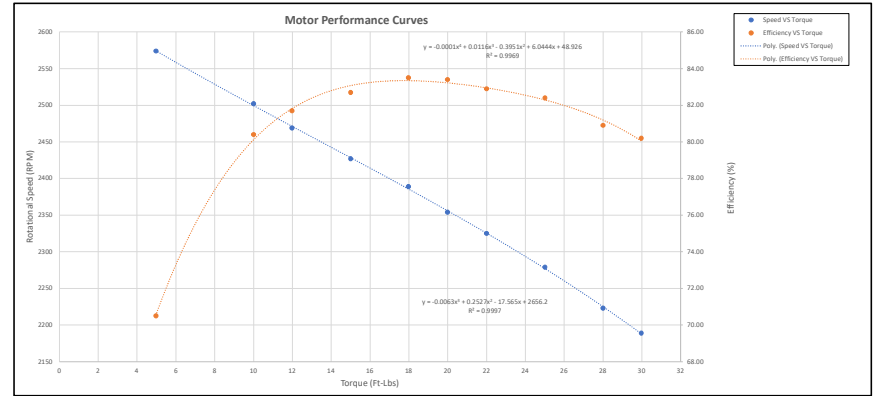
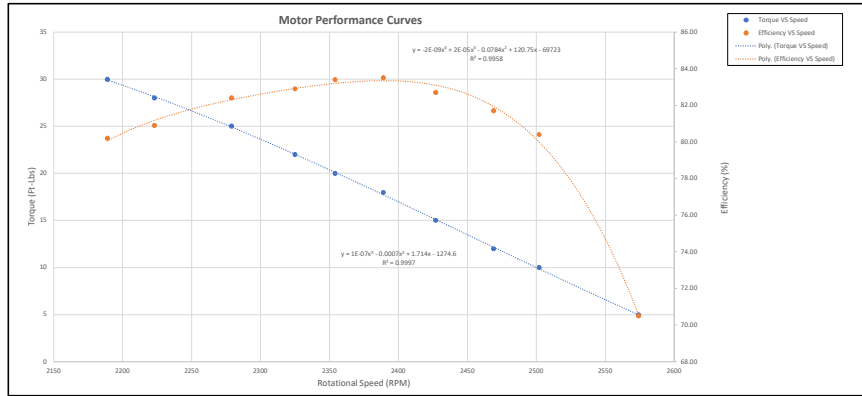


Engineering Performance Test Report

Performance Spec (PS) Number: 12

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 (%)
4.97	2574	71.3	34.2	14.5	10.06	44.26	3.46	2.44	70.50
10	2502	70.4	60.7	14.5	10.12	70.82	5.93	4.77	80.40
11.98	2469	70.1	71.2	14.5	10.11	81.31	6.89	5.63	81.70
15	2427	69.6	87.7	14.5	10.07	97.77	8.38	6.93	82.70
17.97	2389	69.1	103.6	14.5	10.08	113.68	9.79	8.17	83.50
19.99	2354	68.7	114.6	14.5	10.01	124.61	10.74	8.96	83.40
22	2325	68.3	126.3	14.5	10.05	136.35	11.75	9.74	82.90
25.01	2279	67.7	143	14.5	10.08	153.08	13.17	10.85	82.40
28	2223	67.1	160.7	14.5	10.11	170.81	14.65	11.85	80.90
29.97	2189	66.5	172.4	14.5	10.13	182.53	15.57	12.49	80.20

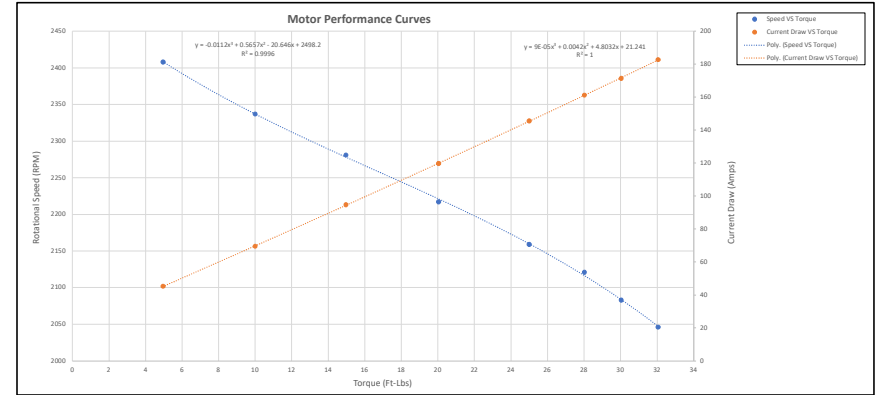
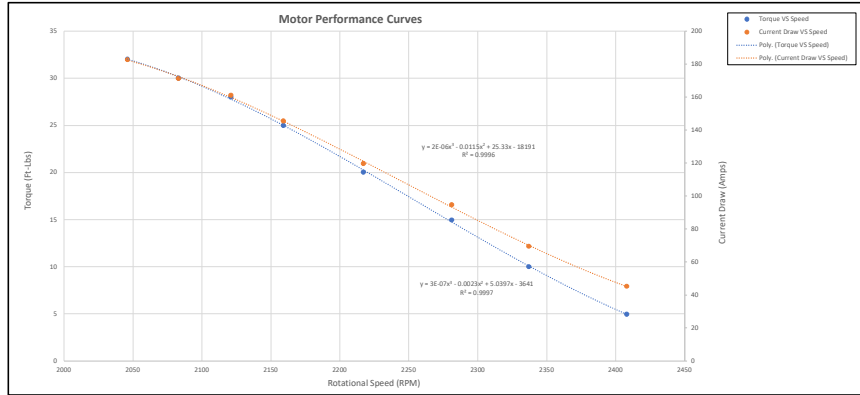
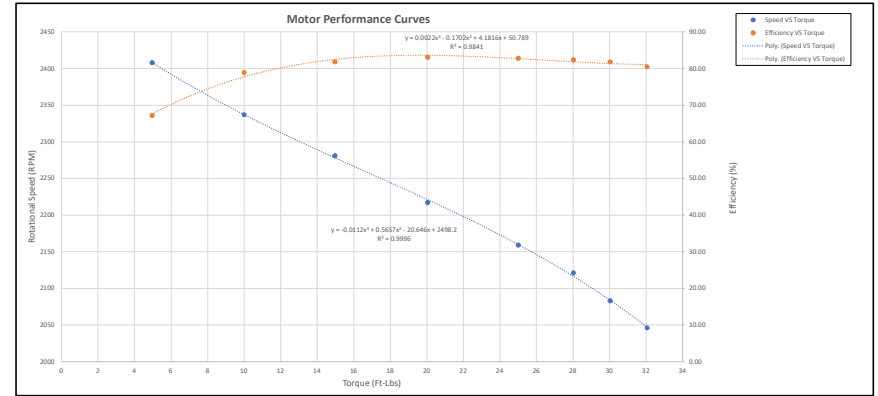
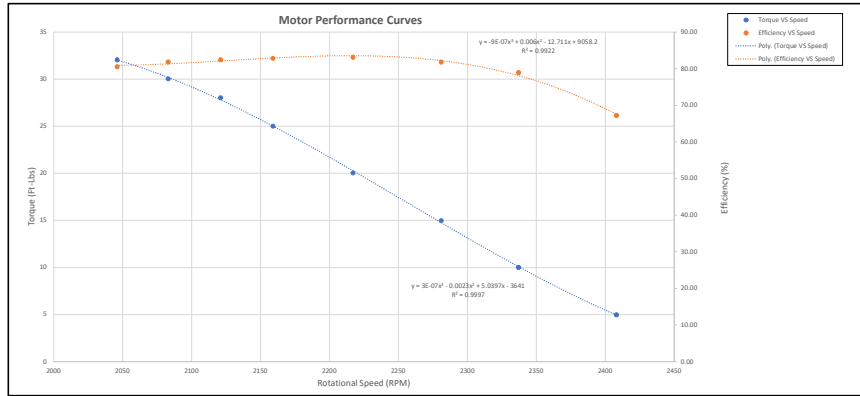


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 72 - (V ± 0.030)

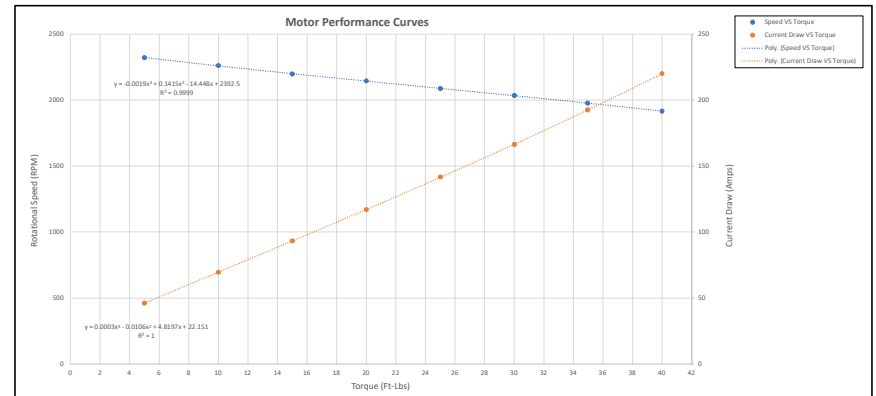
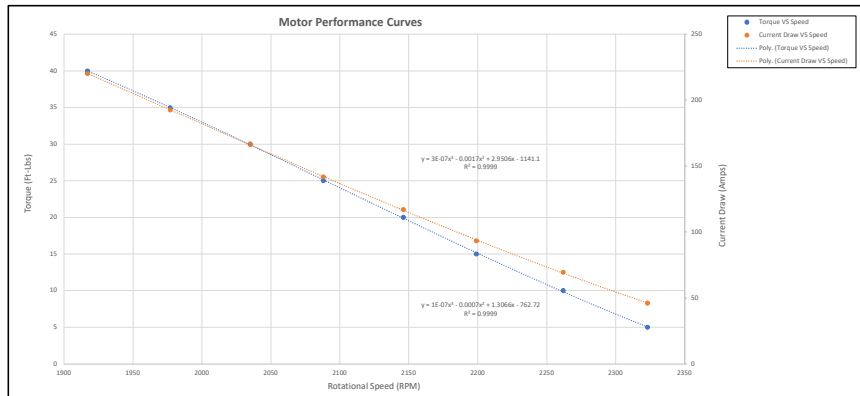
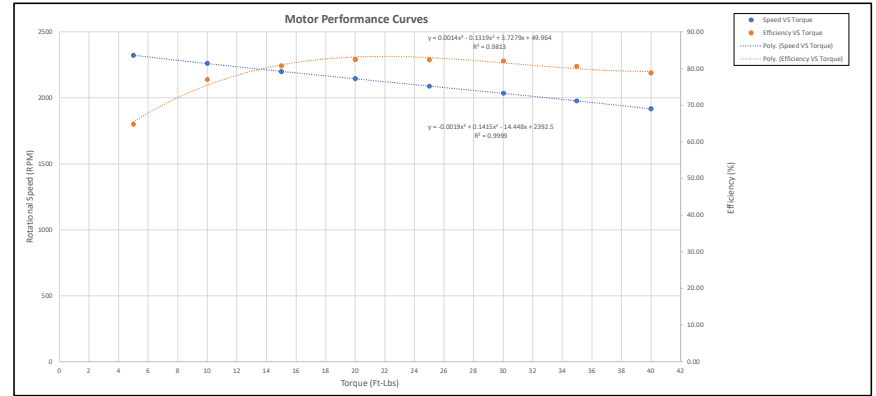
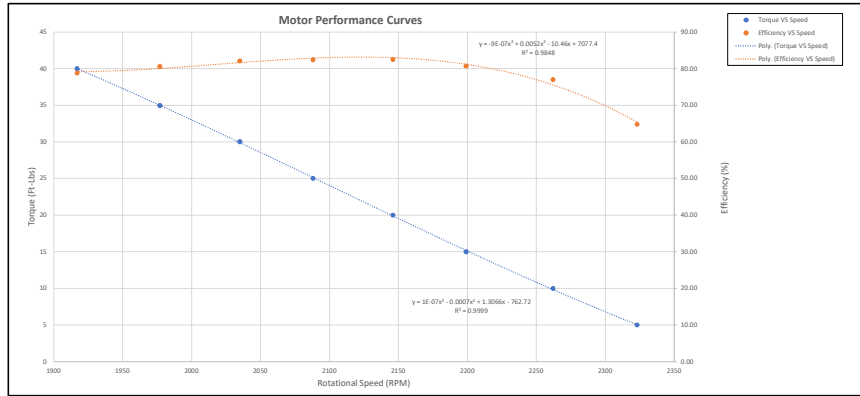
Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.96	2408	71.4	32.1	17.7	13.15	45.25	3.38	2.27	67.20
10	2337	70.6	35.8	17.8	13.14	49.54	5.05	4.45	78.90
14.97	2281	69.9	31.6	17.9	13.1	44.7	7.95	6.5	81.80
20.04	2217	69.1	106.6	17.9	13.11	119.71	10.18	8.46	83.10
25	2159	68.1	132.4	18	13.16	145.56	12.41	10.27	82.80
28.02	2121	67.6	148.1	18.1	13.13	161.23	13.71	11.31	81.60
30.03	2083	67.2	158.2	18.2	13.18	171.38	14.57	11.91	81.80
32.05	2046	66.8	169.6	18.2	13.13	182.73	15.5	12.49	80.50



Engineering Performance Test Report

Performance Spec (PS) Number: 12
 System Voltage (V): 72 - (V ± 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 (%)
5	2323	71.4	31	22.4	15.11	46.11	3.42	2.21	64.80
10	2262	70.7	54.3	22.4	15.15	69.45	5.6	4.31	77.00
15	2199	70	78.2	22.4	15.11	93.31	7.79	6.28	80.70
20	2146	69.2	101.9	22.5	15.11	117.01	9.91	8.17	82.50
25.01	2088	68.4	126.7	22.5	15.1	141.8	12.07	9.94	82.40
30.02	2035	67.6	151.3	22.6	15.13	166.43	14.17	11.63	82.10
34.97	1977	66.8	177.3	22.6	15.27	192.57	16.34	13.17	80.60
39.99	1917	65.8	204.9	22.7	15.29	220.19	18.53	14.59	78.80

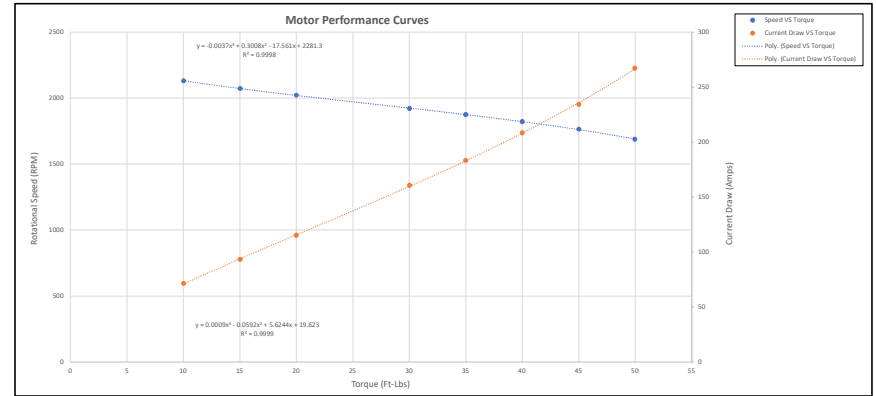
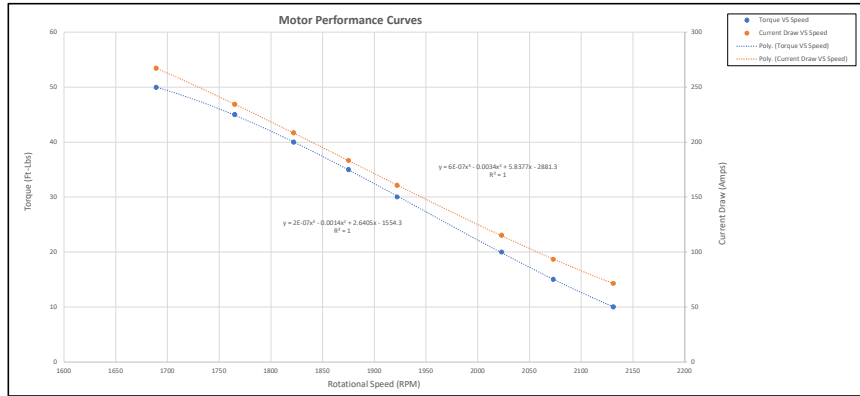
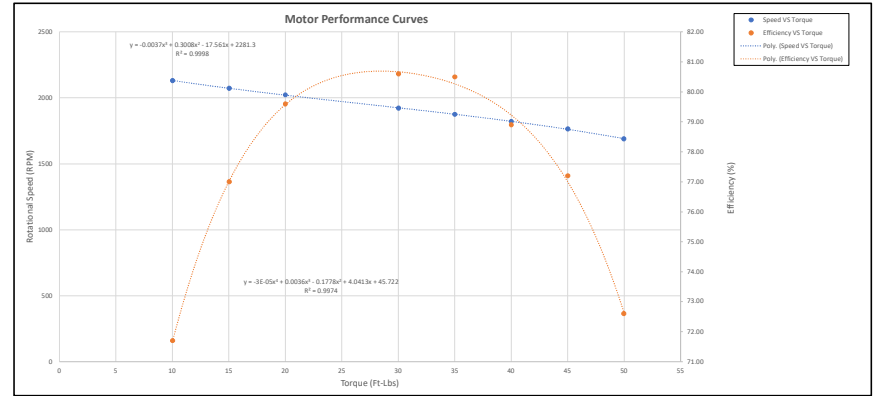
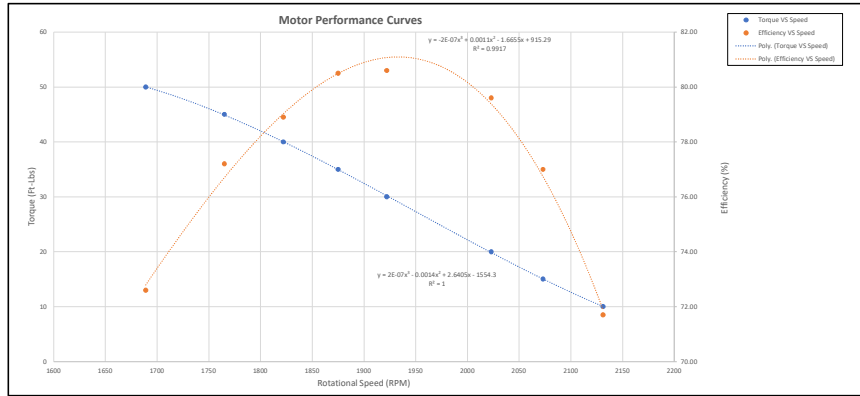


Engineering Performance Test Report

Performance Spec (PS) Number: 12

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 (%)
10.02	2131	70.8	51.2	30.4	20.2	71.4	5.67	4.07	71.70
15.03	2073	70.4	73.2	30.6	20.14	93.34	7.1	5.39	77.00
20	2023	69.4	95.1	30.8	20.13	115.23	9.68	7.71	79.60
30.02	1922	67.9	140.5	30.9	20.16	160.66	13.63	10.99	80.60
35	1875	67.2	163.1	31.1	20.18	183.28	15.52	12.5	80.50
40	1822	66.3	188.3	31.3	20.12	208.42	17.56	13.87	78.90
45.01	1765	65.3	214.2	31.5	20.21	234.41	19.58	15.13	77.20
49.97	1689	64.2	247.2	31.6	20.14	267.34	22.14	16.07	72.60

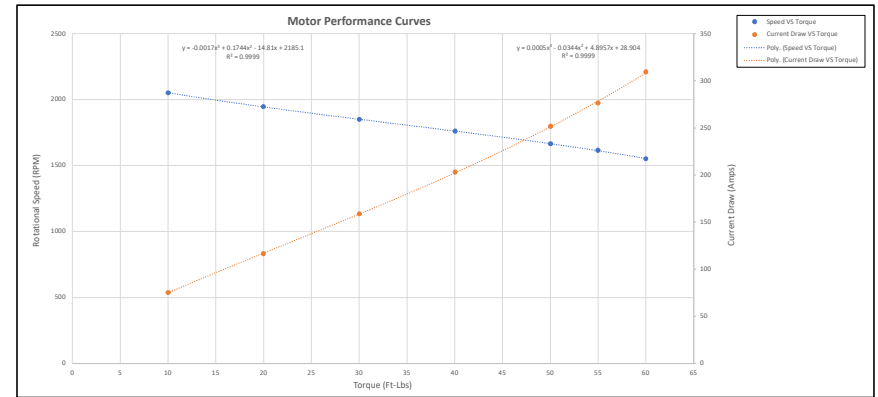
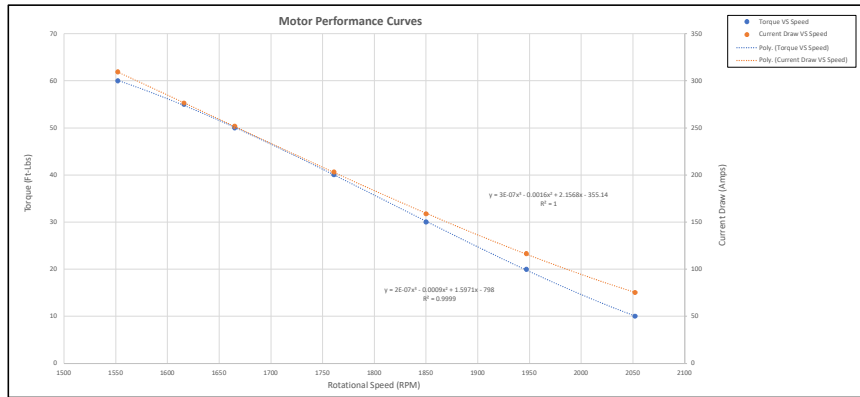
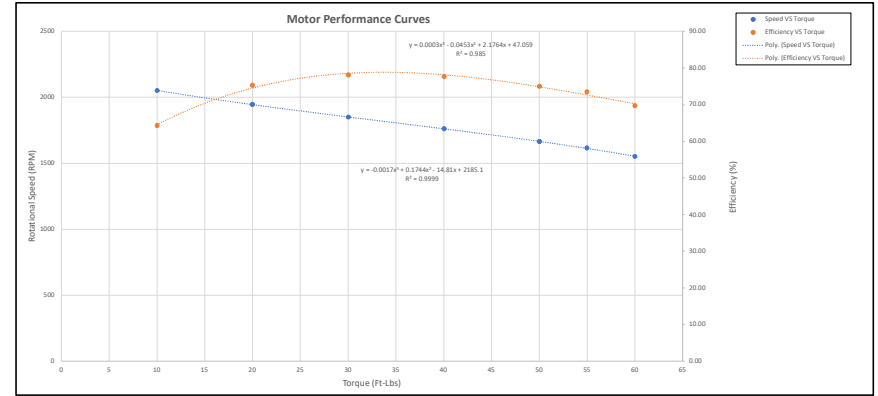
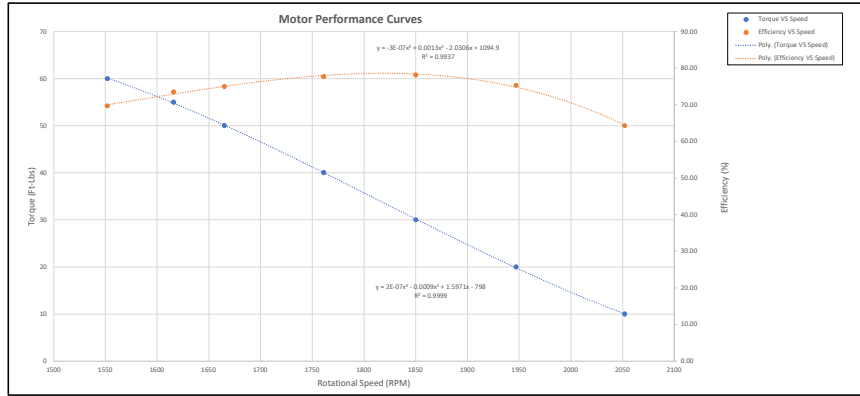


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 72 - (I * 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 (%)
10.01	2052	70.8	50.1	39.4	25.14	75.24	6.08	3.91	64.30
19.98	1947	69.5	49.3	39.8	25.09	116.39	9.84	7.41	75.30
30.02	1850	68.1	133.6	40.2	25.09	158.69	13.55	10.57	78.30
40.04	1761	66.7	178	40.6	25.1	203.1	17.29	13.43	77.20
50.02	1665	65	226.5	40.9	25.25	251.75	21.13	15.86	75.00
54.98	1566	64.2	251.3	41.3	25.03	276.33	23.01	16.92	73.50
60	1552	63.1	284.5	41.7	24.89	309.39	25.44	17.73	69.70

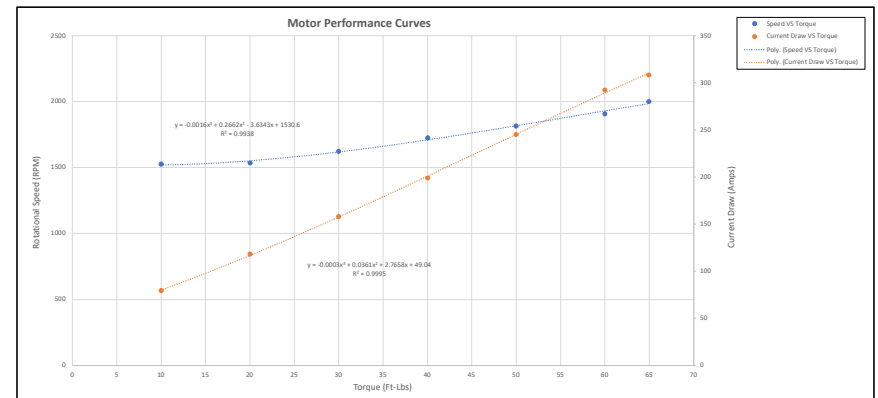
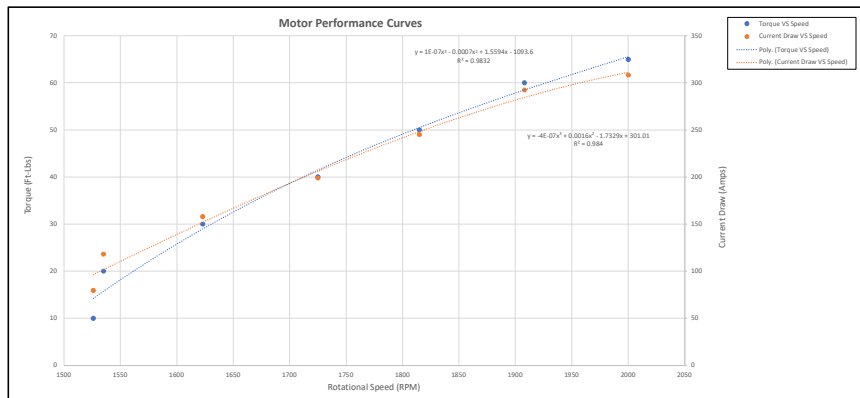
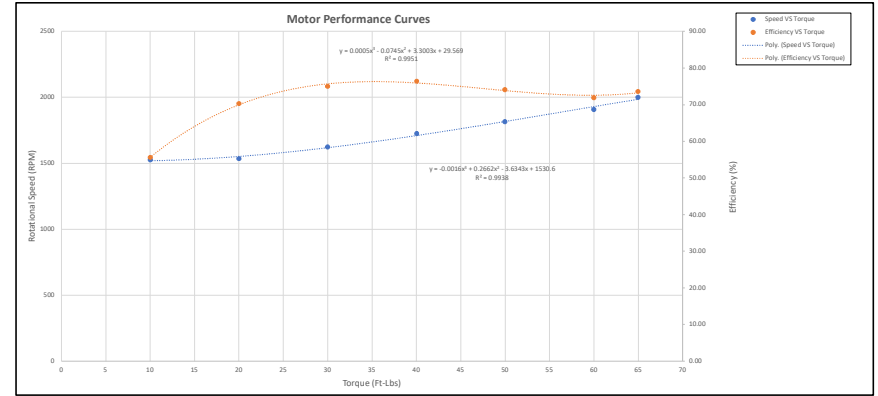
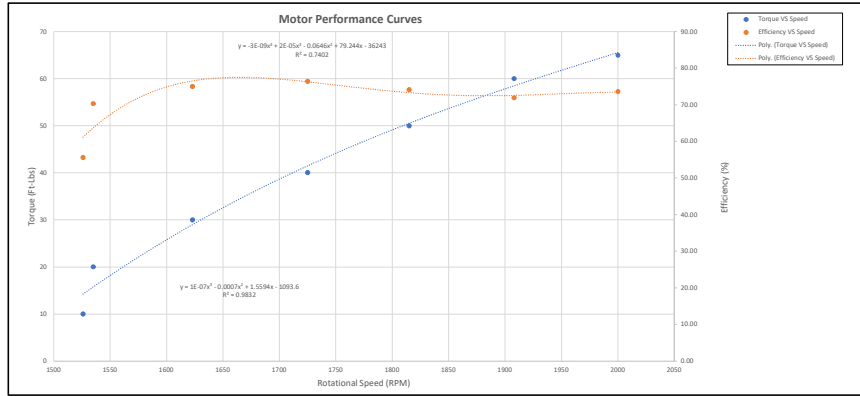


Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 72 - (I² + 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 (%)
10	1526	63.5	49.4	53.7	30.02	79.42	6.85	3.81	55.60
20.01	1535	63.7	48.8	52.9	29.99	118.99	10.35	2.27	70.30
29.99	1623	65.3	127.9	52.1	30.04	157.94	13.81	10.36	75.00
40.03	1725	66.9	168.9	51.2	30.01	198.91	17.21	13.15	76.40
49.97	1815	68.4	215	50.3	30.05	245.05	20.85	15.44	74.10
59.99	1908	69.6	262.2	49.4	30.11	292.31	24.39	17.54	71.90
64.96	2000	70.8	278.3	48.4	29.95	308.25	25.65	18.88	73.60



Engineering Performance Test Report

Performance Spec (PS) Number: 12

System Voltage (V): 72 - (I² * 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 (%)
9.99	1950	70.8	49.8	59.1	35.09	84.89	7.51	3.71	49.40
20.01	1859	69.7	49	57.5	35.07	122.07	10.83	7.08	65.46
29.95	1776	68.5	134.7	55.8	35.13	159.83	14.07	10.13	72.00
39.99	1692	67.2	163.5	54	35.14	198.64	17.28	12.88	74.50
49.97	1600	65.6	205.2	52.3	35.19	240.39	20.52	15.23	74.20
60.01	1518	64	252.3	50.4	35.09	287.39	24.09	17.35	72.00
70.01	1447	63	291.7	48.6	35.32	327.02	26.94	19.28	71.60

