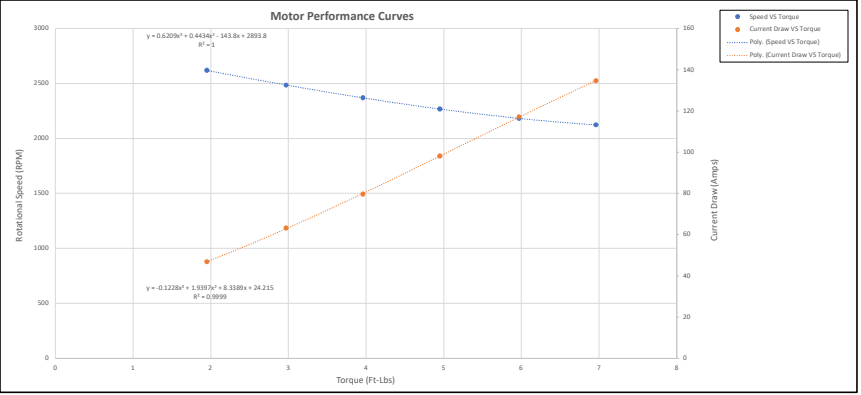
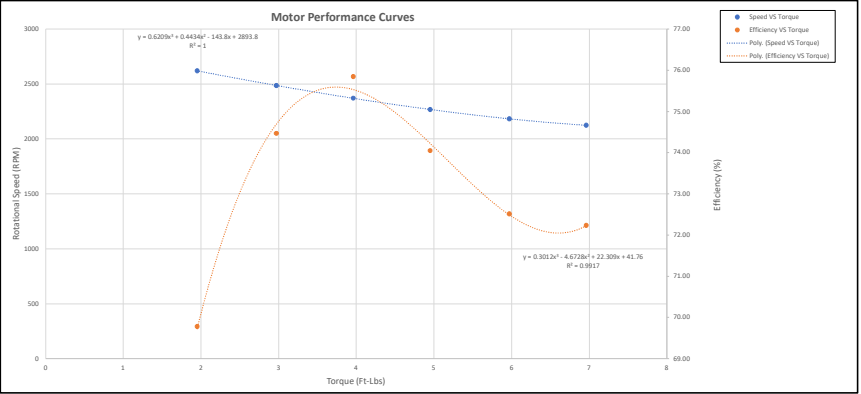
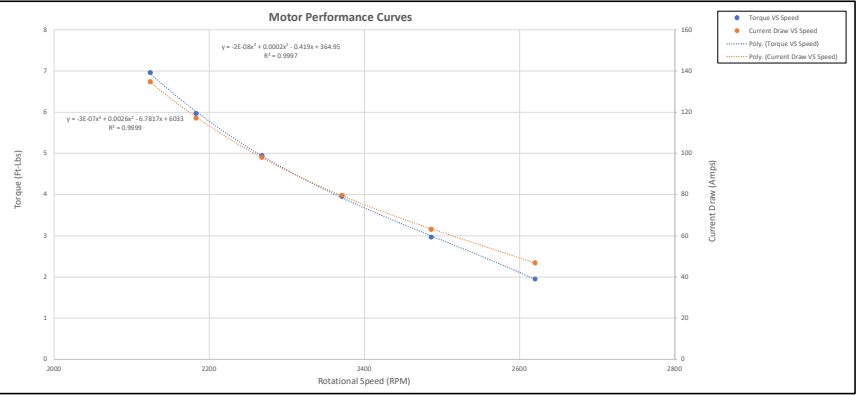
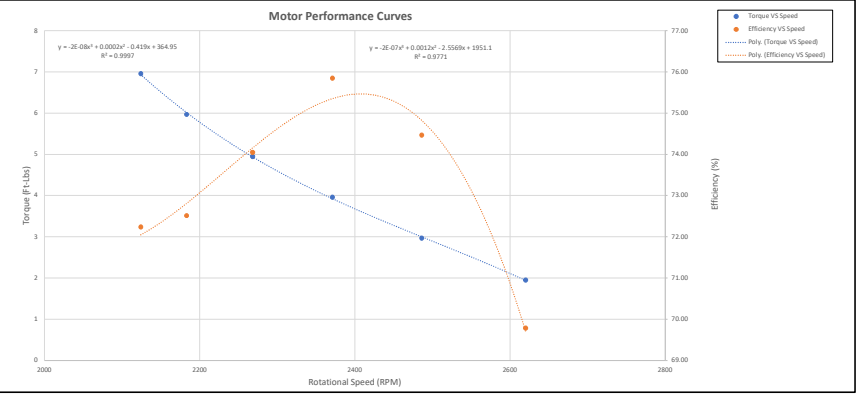


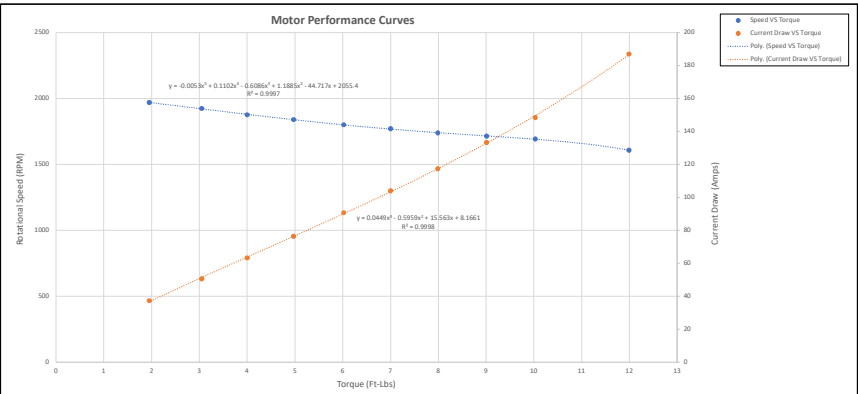
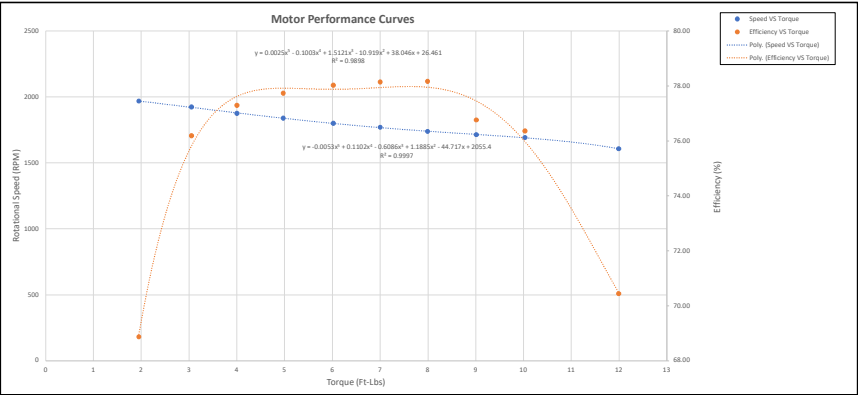
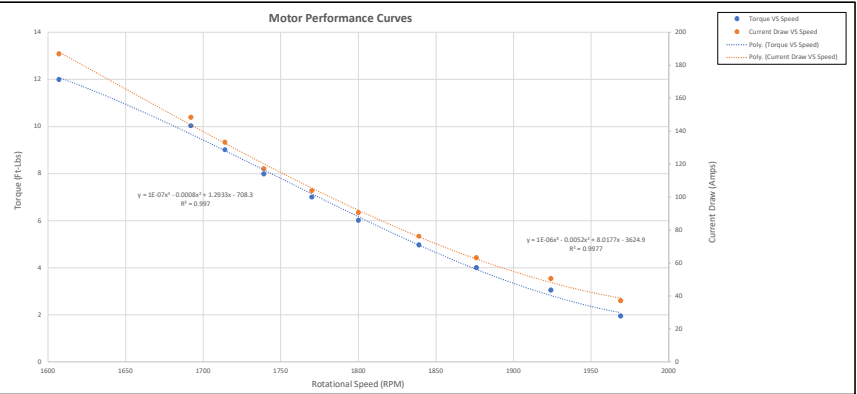
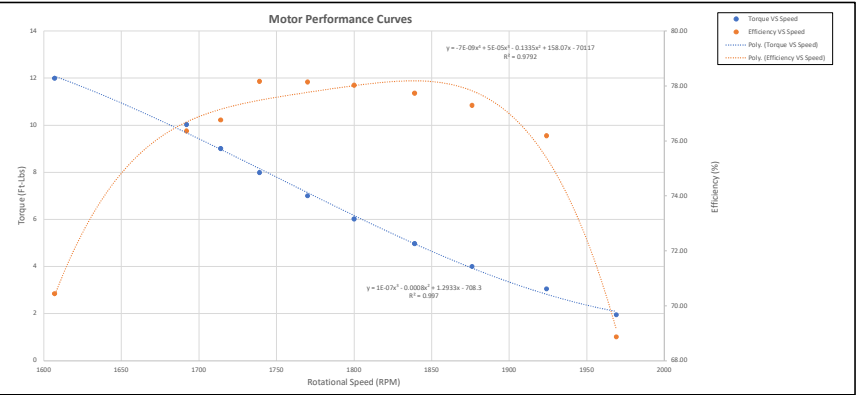
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 24 - (V ± 0.015)

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 (%)
1.95	2620	23.4	43.9	4	2.94	46.84	1.39	0.97	69.78
2.97	2496	23.4	60.3	4	2.92	63.22	1.86	1.4	74.47
3.96	2371	22.8	76.7	4	2.97	79.67	2.36	1.79	75.85
4.95	2268	22.5	95.2	4	2.94	98.14	2.89	2.14	74.05
5.97	2183	22.3	114.2	4	2.96	117.16	3.42	2.48	72.51
6.96	2124	21.9	131.8	4	2.94	134.74	3.89	2.81	72.34



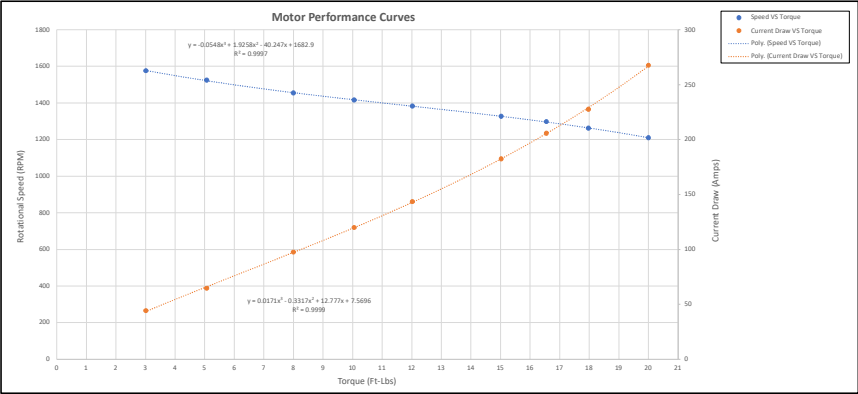
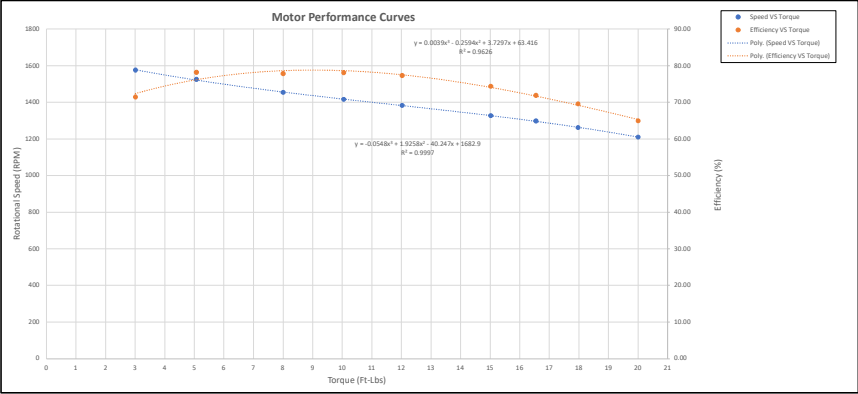
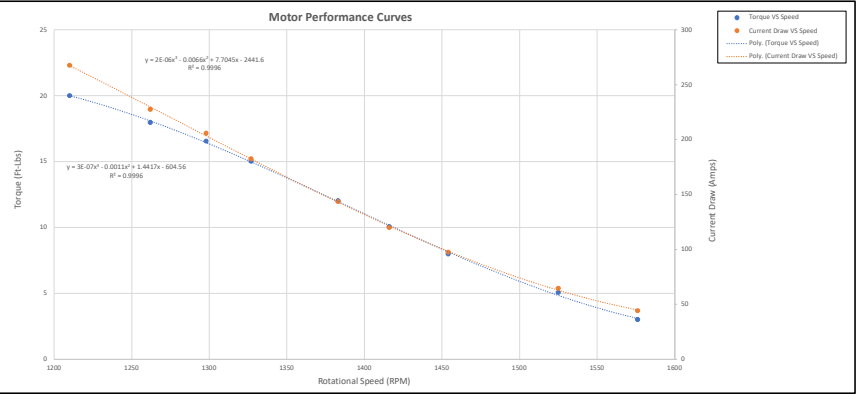
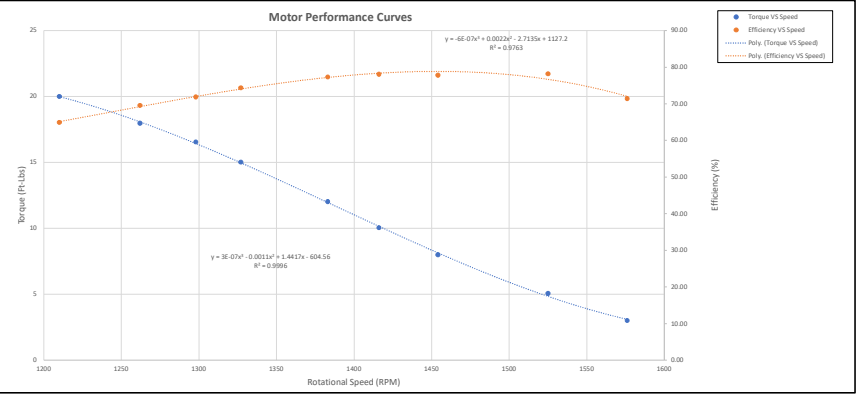
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 24 - (V ± 0.05%)

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 (%)
1.95	1969	23.5	32.2	6.7	5.02	37.22	1.06	0.73	68.87
3.05	1924	23.3	45.6	6.7	4.98	50.58	1.47	1.12	76.18
4	1876	23.1	58.2	6.7	5	63.2	1.85	1.43	77.30
4.97	1839	22.9	71.3	6.7	5.01	76.31	2.23	1.74	77.74
6.02	1800	22.7	85.7	6.7	4.96	90.66	2.65	2.06	78.03
7	1770	22.5	98.9	6.7	5.05	103.95	3.02	2.36	78.15
7.99	1739	22.3	112.2	6.7	5.05	117.25	3.39	2.65	78.17
9.01	1714	22	128.1	6.7	4.96	133.26	3.83	2.94	76.76
10.03	1692	21.8	143.4	6.7	5.04	148.44	4.23	3.23	76.36
11.99	1607	21.2	181.9	6.7	5.01	186.91	5.21	3.67	70.44



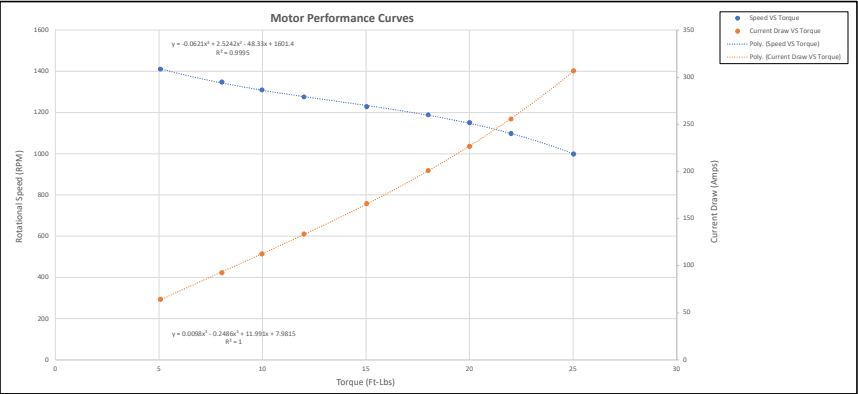
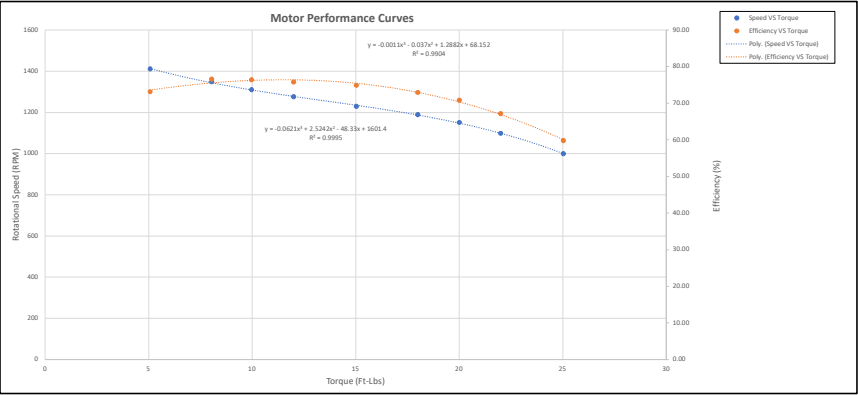
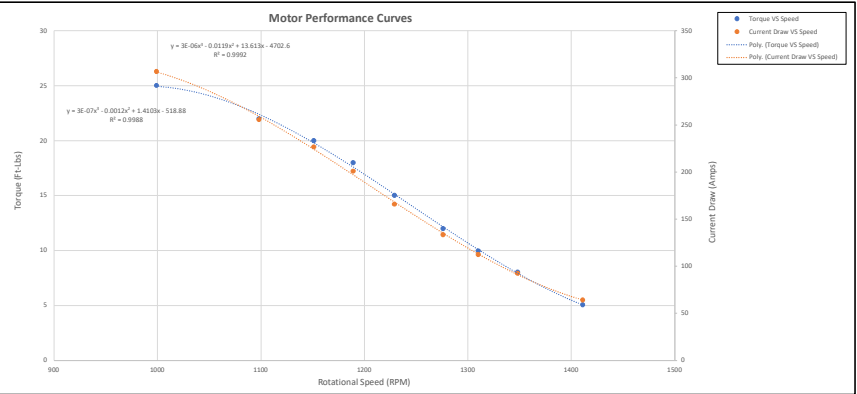
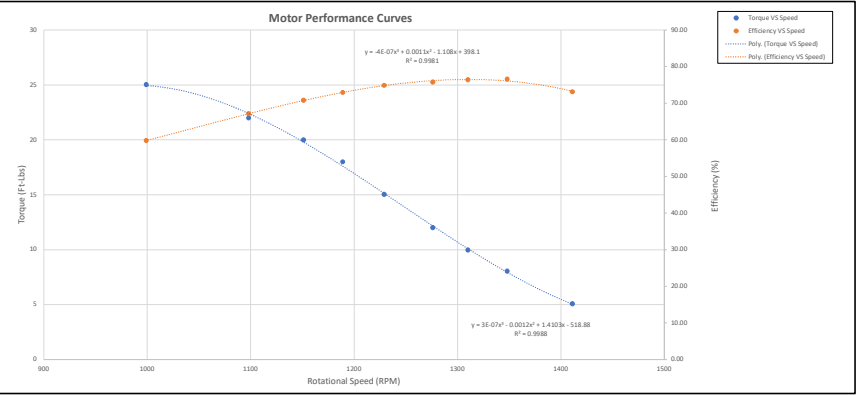
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage (V): 24 - (V ± 0.05%)

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	1576	23.5	36.3	11.3	7.95	44.25	1.26	0.9	71.43
5.07	1525	23.2	36.2	11.3	7.92	44.12	1.25	1.47	78.18
8	1454	22.7	39.7	11.4	7.88	47.58	1.34	2.21	77.82
10.05	1416	22.3	112	11.4	7.93	119.93	3.47	2.71	78.10
12.02	1383	21.9	135.6	11.4	7.93	143.53	4.1	3.17	77.32
15.02	1322	21.3	174.4	11.4	7.99	182.39	5.11	3.8	74.36
16.55	1298	21	197.8	11.4	7.96	205.76	5.69	4.09	71.88
17.97	1262	20.7	219.5	11.4	8.04	227.54	6.21	4.32	69.57
20	1210	20	259.8	11.5	7.81	267.61	7.1	4.61	64.93



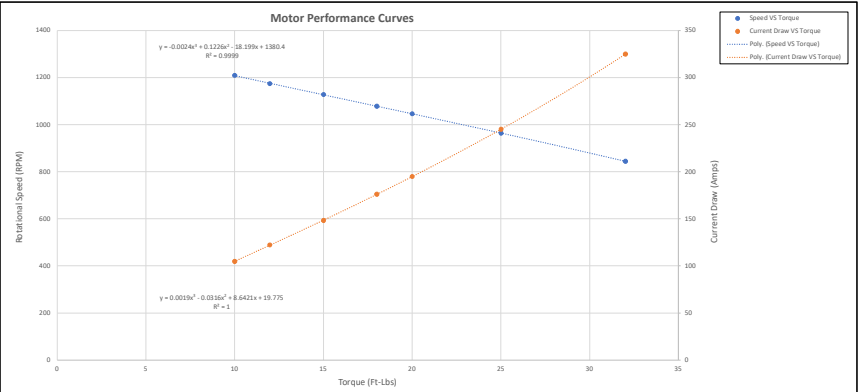
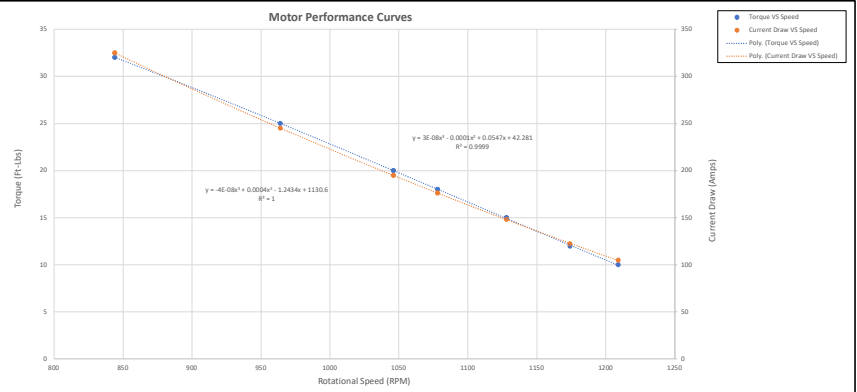
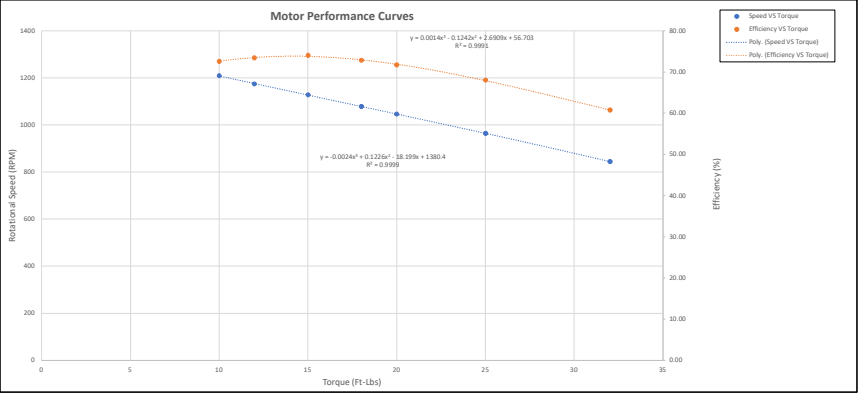
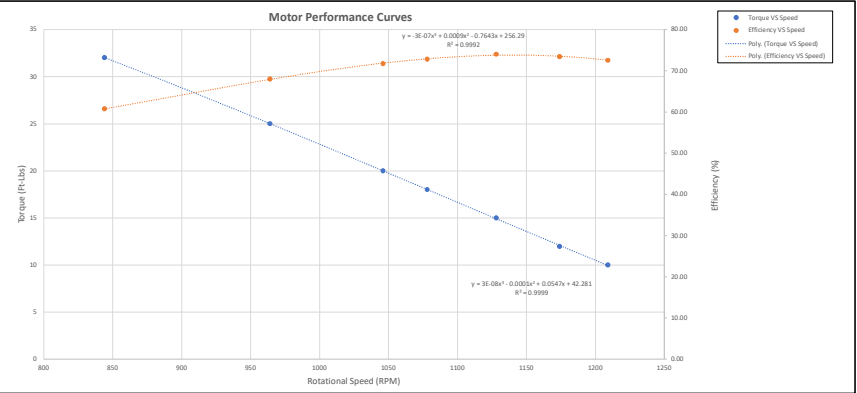
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 24 - (V * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.07	1411	23.2	54.1	13.5	10.01	64.11	1.86	1.36	73.12
8.04	1348	22.7	87.5	13.6	9.99	97.49	2.69	2.06	76.58
9.97	1310	22.4	102.4	13.6	10.02	112.42	3.26	2.49	76.38
12	1276	22.1	123.5	13.7	10.07	133.57	3.84	2.91	75.78
15.03	1229	21.6	155.8	13.8	10.08	165.88	4.7	3.52	74.89
18	1189	21.1	190.6	13.8	10.28	200.88	5.58	4.07	72.94
20	1151	20.7	216.8	13.9	9.95	226.75	6.2	4.39	70.81
22	1098	20.2	245.5	13.9	10.17	255.67	6.85	4.6	67.15
25.02	999	19.5	296.9	14	9.9	306.8	7.96	4.76	59.80



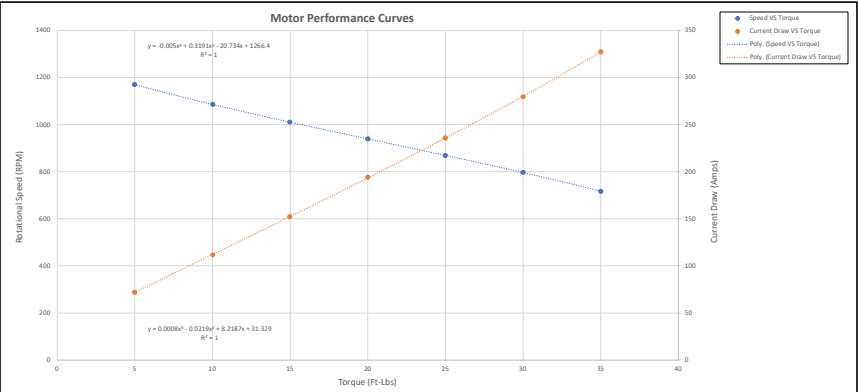
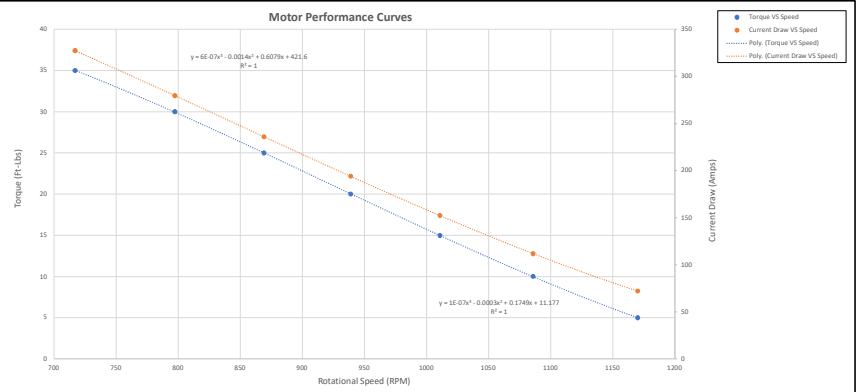
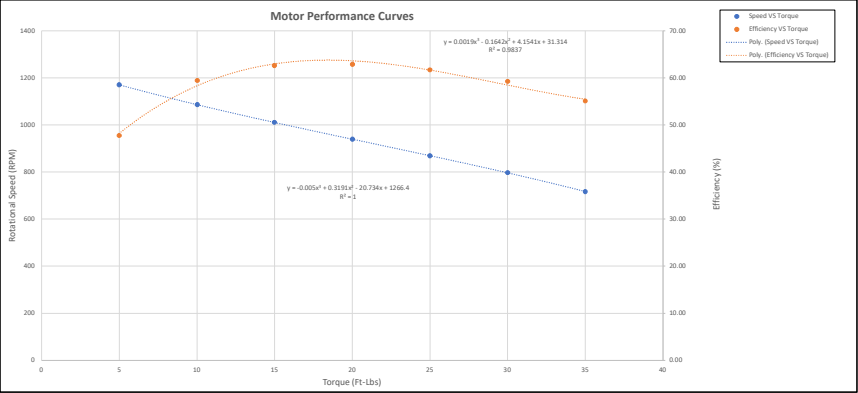
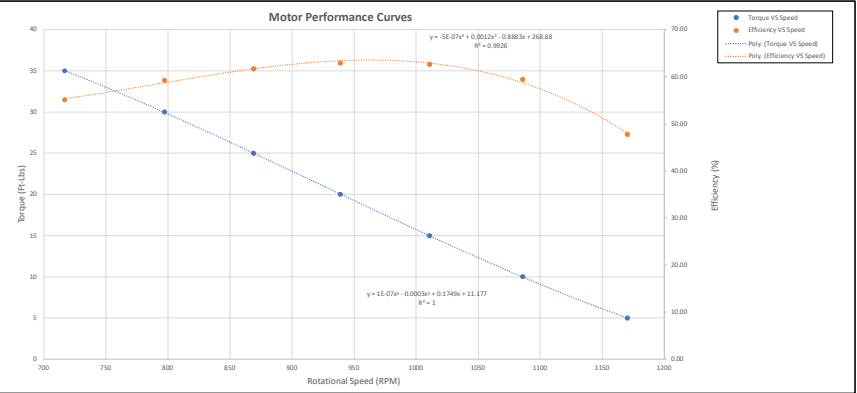
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage (V): 24 - (1 * 0.015)

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 (%)
32.02	844	19.4	309.8	20.9	15.14	324.94	8.46	5.14	60.76
25.01	954	20.5	230.3	21.1	14.92	245.02	6.75	4.59	68.00
20	1046	21.2	180.1	21.3	14.86	194.96	5.55	3.98	71.71
18.01	1078	21.5	161.2	21.6	14.93	176.13	5.08	3.7	72.83
15.01	1128	21.9	133.3	21.7	14.92	148.22	4.35	3.22	74.02
11.98	1174	22.3	107.4	21.9	14.89	122.21	3.65	2.68	73.42
10	1209	22.6	89.9	22.1	14.91	104.81	3.17	2.3	72.56



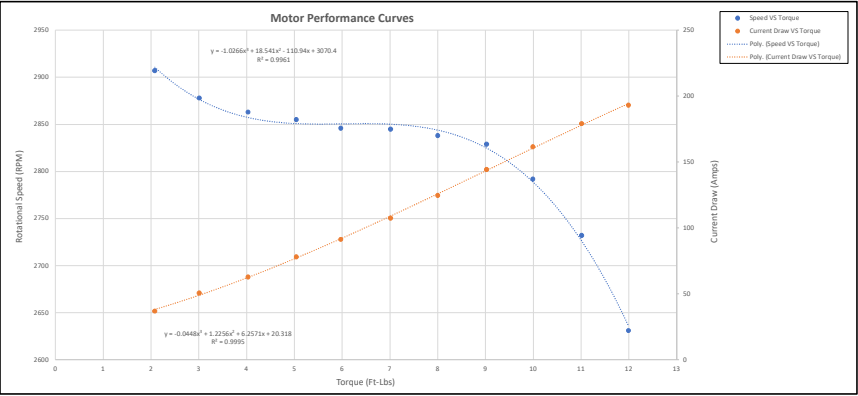
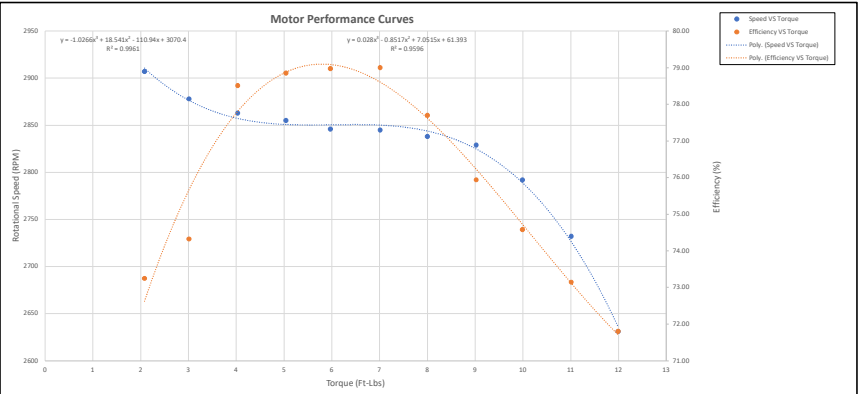
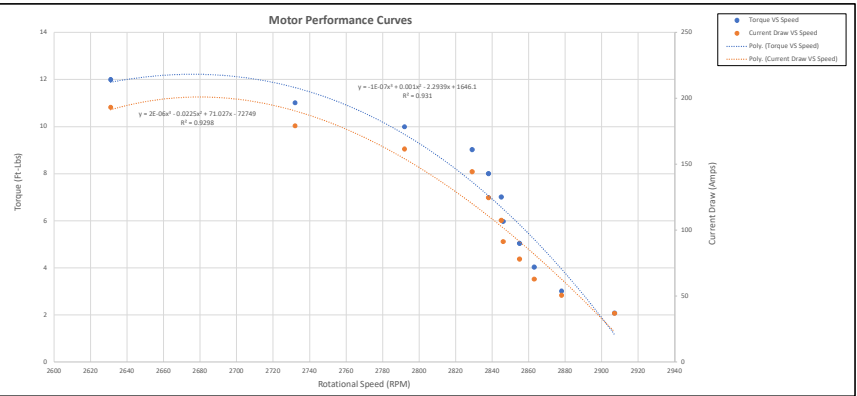
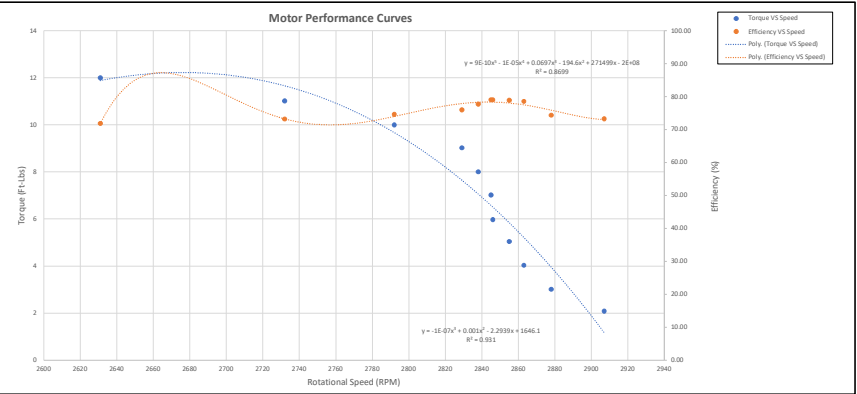
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 24 - (V * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage [V]	Armature Current [Amps]	Field Voltage [V]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency %
4.99	1170.17	22.96	51.98	26.89	20.17	72.15	2.33	1.11	47.75
10.02	1085.9	22.37	51.53	27.4	20.18	71.71	3.49	2.07	59.42
14.98	1050.87	21.75	133.17	27.9	20.16	152.33	4.61	2.88	62.60
20.01	938.9	21.12	173.83	28.39	20.2	194.03	5.69	3.58	62.85
24.99	869.06	20.48	215.75	28.86	20.14	235.89	6.7	4.14	61.70
30	792.27	19.83	259.34	29.33	20.16	279.5	7.69	4.55	59.24
35	716.86	19.11	307.21	29.3	20.13	327.34	8.67	4.78	55.09



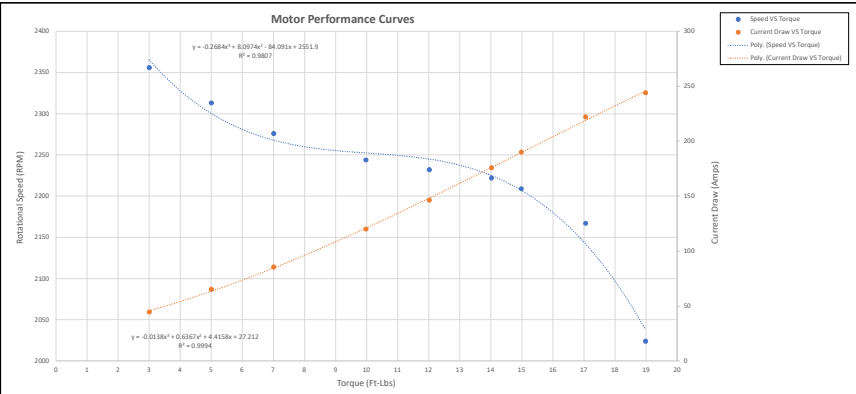
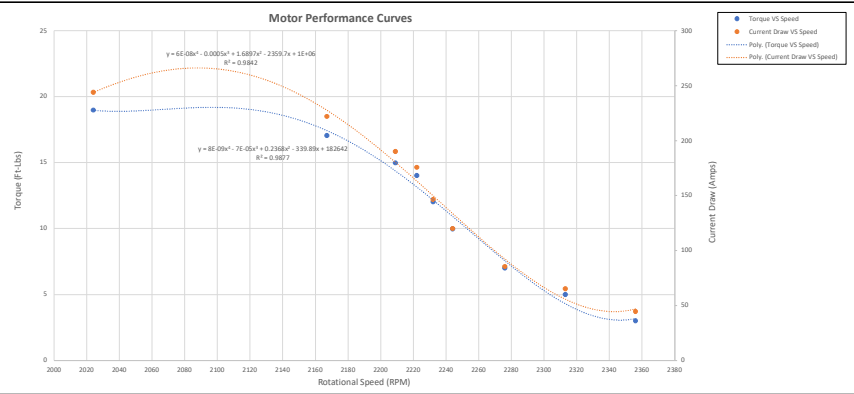
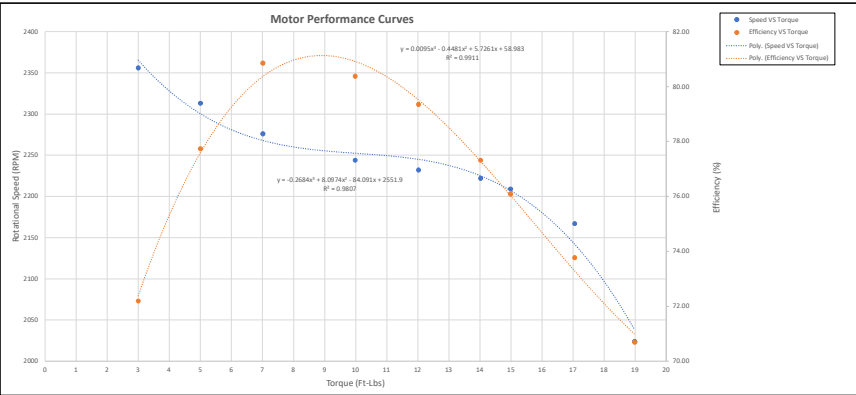
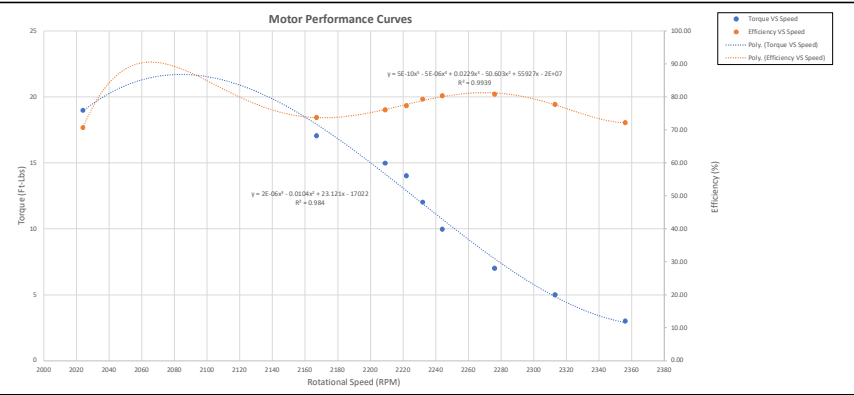
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 36 - (1 ± 0.015)

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 (%)
2.08	2907	35.7	32	6.8	4.93	36.93	1.57	1.15	73.25
3.01	2878	35.5	45.7	6.8	4.94	50.64	2.22	1.65	74.32
4.03	2863	35.3	57.9	6.9	4.94	62.84	2.75	2.2	78.51
5.04	2855	35.1	73.1	6.9	4.96	78.06	3.49	2.74	78.85
5.97	2846	34.9	86.4	6.9	4.96	91.36	4.09	3.23	78.97
7.01	2845	34.7	102.5	6.9	4.98	107.48	4.81	3.8	79.00
8	2838	34.4	119.7	6.9	4.93	124.63	5.56	4.32	77.70
9.02	2829	34	139.4	6.9	4.95	144.35	6.4	4.86	75.94
9.99	2792	33.7	156.6	7	4.92	161.52	7.12	5.31	74.58
11.01	2732	33.3	174.2	7	4.93	179.13	7.82	5.72	73.15
11.99	2631	33	188.2	7	4.96	193.16	8.37	6.01	71.80



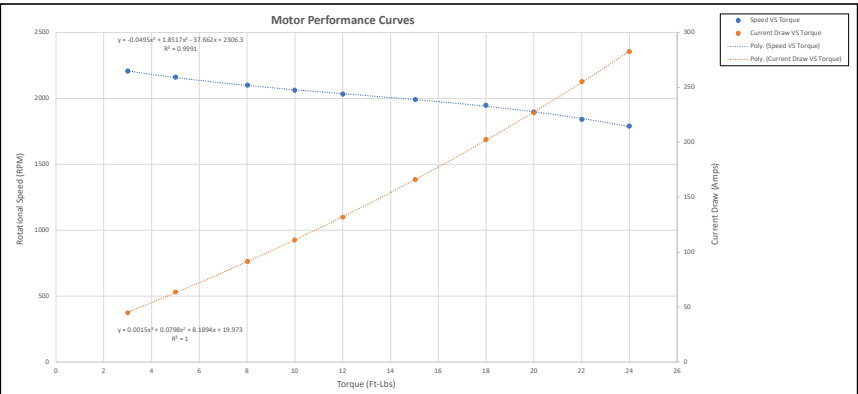
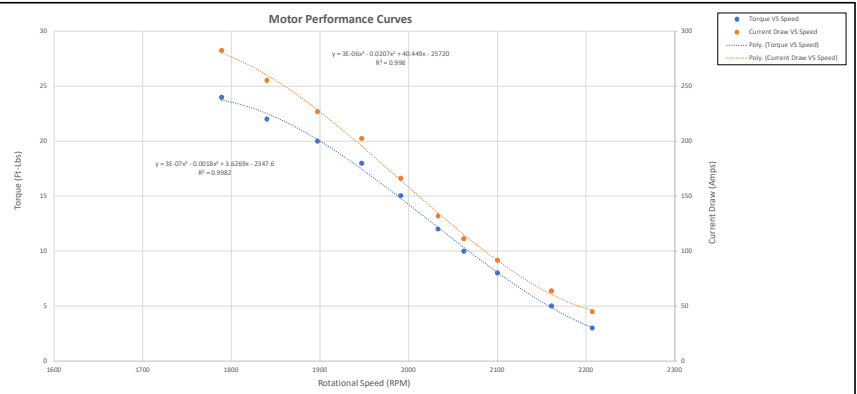
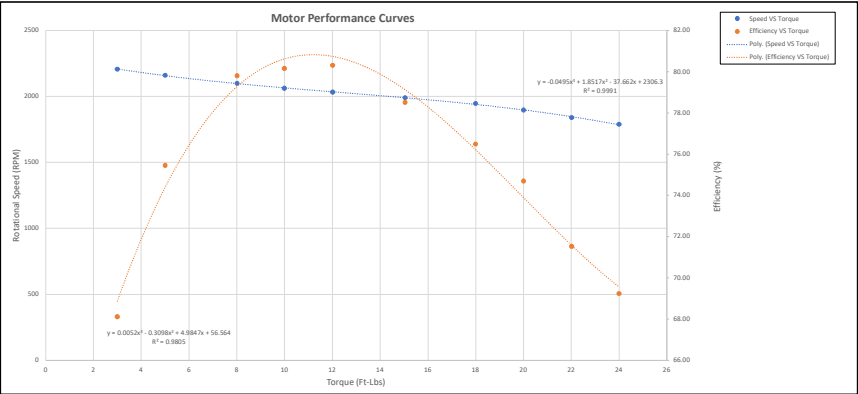
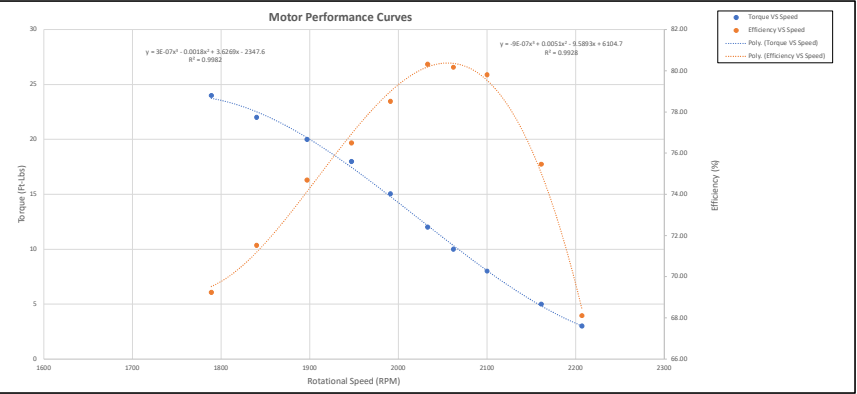
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 36 - (1 * 0.015)

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 (%)
3	2356	35.6	36.6	11	8	44.6	1.87	1.35	72.19
5	2313	35.3	37.2	11.1	8.03	65.23	2.83	2.2	77.74
7.01	2276	35	37.5	11.1	8.02	85.52	3.76	3.04	80.85
9.98	2244	34.5	112	11.1	8.08	120.08	5.3	4.26	80.38
12.02	2232	34.1	138.3	11.2	8.09	146.39	6.44	5.11	79.35
14.02	2222	33.6	167.6	11.2	8.11	175.71	7.67	5.99	77.81
14.98	2209	33.4	182.2	11.2	7.96	190.16	8.28	6.3	76.09
17.05	2167	32.8	214	11.3	8.03	222.03	9.53	7.03	73.77
18.98	2024	32.3	236	11.4	8.01	244.01	10.34	7.81	70.70



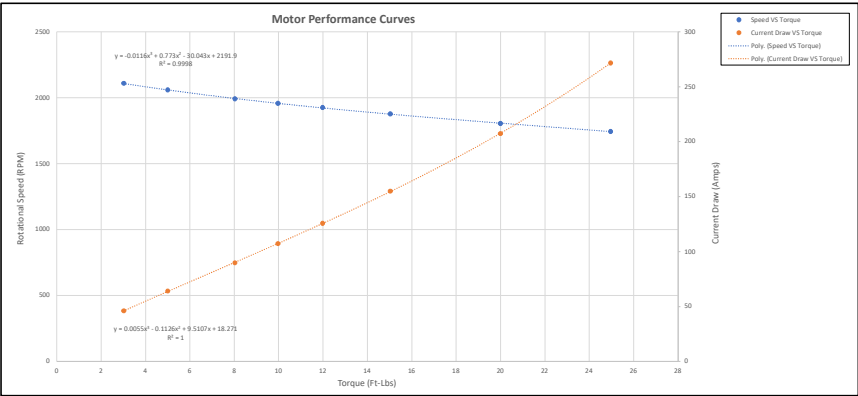
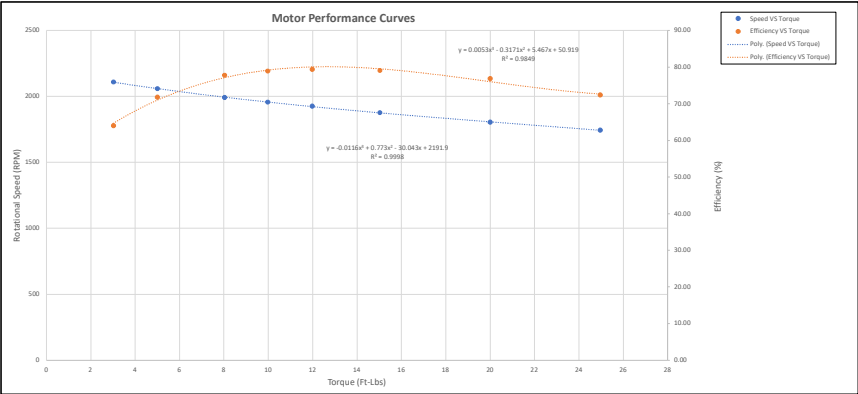
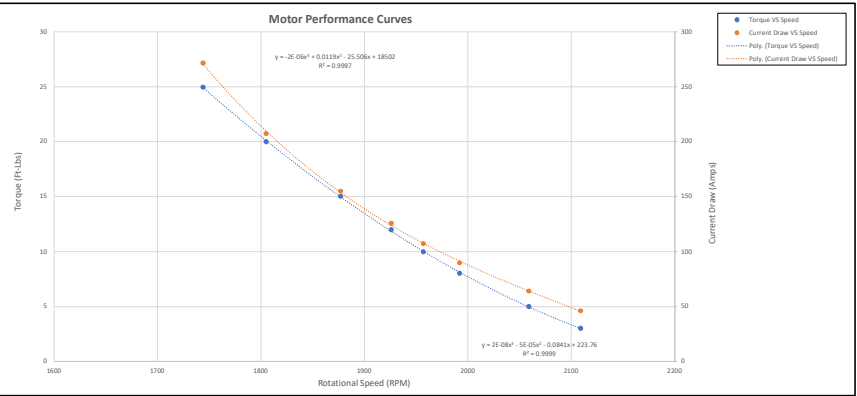
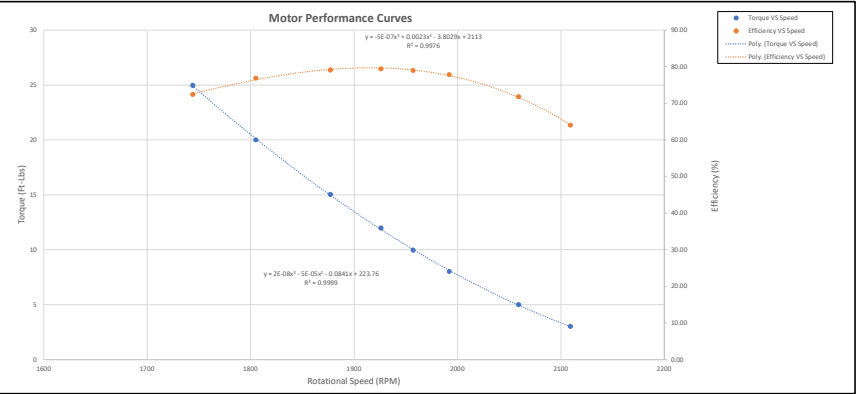
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 36 - (1 * 0.015)

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 (%)
3	2207	35.7	34.9	13.6	9.99	44.89	1.85	1.26	68.11
5	2161	35.4	33.7	13.7	10.02	63.72	2.73	2.06	75.46
8.01	2100	35	31.6	13.8	10.01	91.61	4.01	3.2	79.80
9.99	2062	34.7	101.1	13.8	10.03	111.13	4.89	3.92	80.16
12.01	2033	34.3	121.9	13.9	9.99	131.89	5.79	4.65	80.31
15.04	1991	33.8	156.2	13.9	9.96	166.16	7.26	5.7	78.51
17.99	1947	33.1	192.4	14	10.05	202.45	8.72	6.67	76.49
20	1897	32.7	216.9	14	9.96	226.86	9.68	7.23	74.69
22.01	1840	32.2	245.3	14.1	9.99	255.29	10.78	7.71	71.52
23.99	1789	31.8	272.7	14.2	9.87	292.57	11.8	8.17	69.24



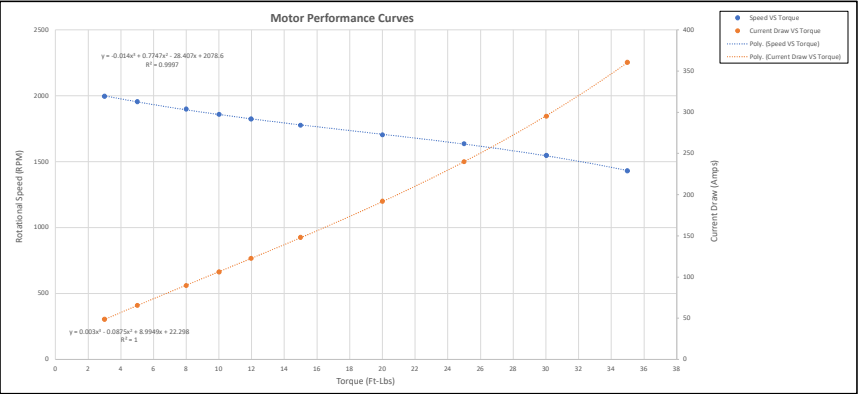
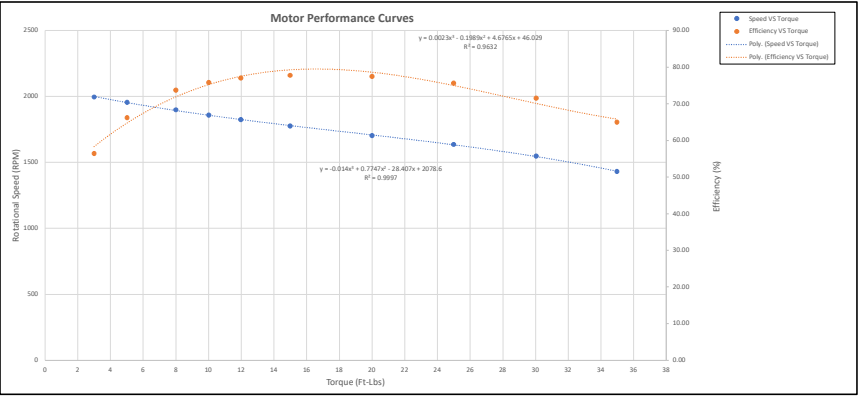
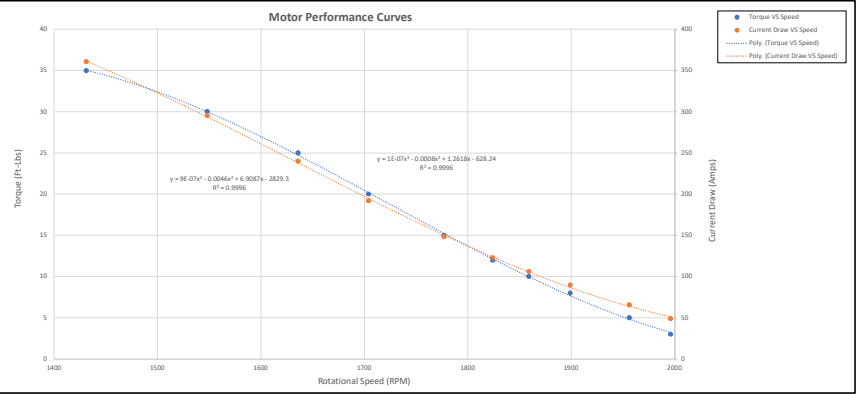
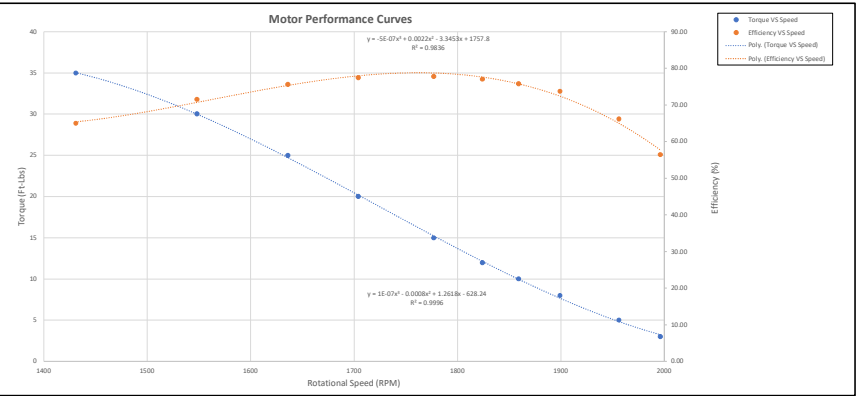
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 36 - (1 * 0.015)

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 (%)
3.02	2109	35.7	34	16.3	12.04	46.04	1.89	1.21	64.02
5	2059	35.4	52	16.4	12.07	64.07	2.73	1.96	71.79
8.03	1992	35	77.7	16.5	12.05	89.75	3.92	3.05	77.81
9.97	1957	34.8	95.2	16.6	12.04	107.24	4.7	3.71	78.94
11.98	1926	34.5	113.7	16.7	12.04	125.74	5.53	4.39	79.39
15.03	1877	34	142.9	16.8	12.12	155.02	6.79	5.37	79.09
20	1805	33.2	195.2	16.9	12.13	207.33	8.95	6.88	76.87
24.96	1744	32.1	259.7	17	11.96	271.66	11.45	8.29	72.40



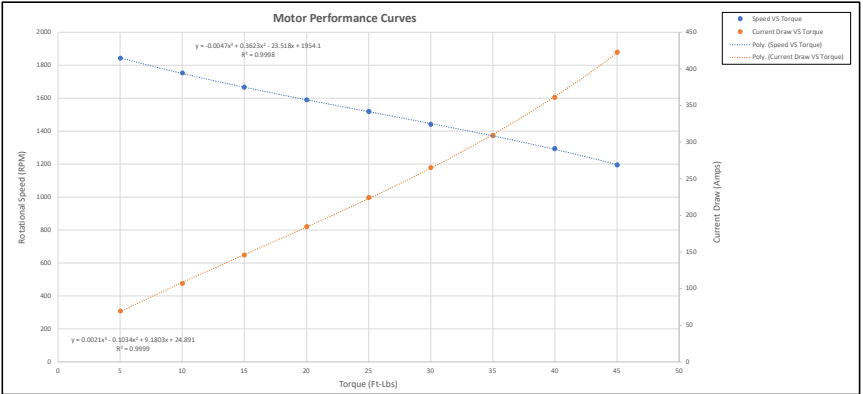
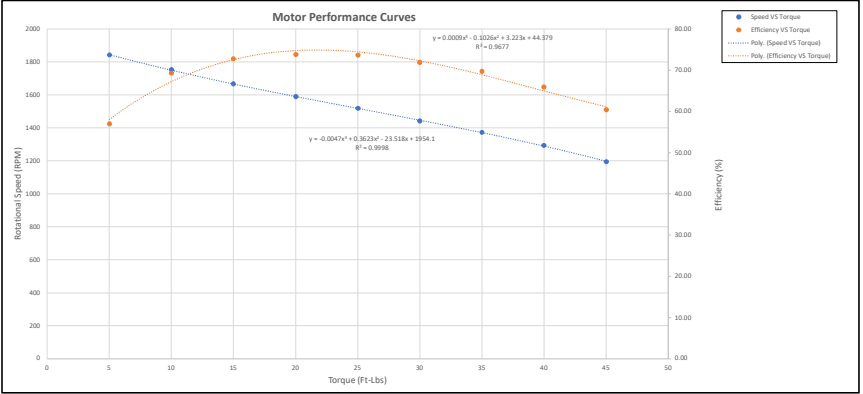
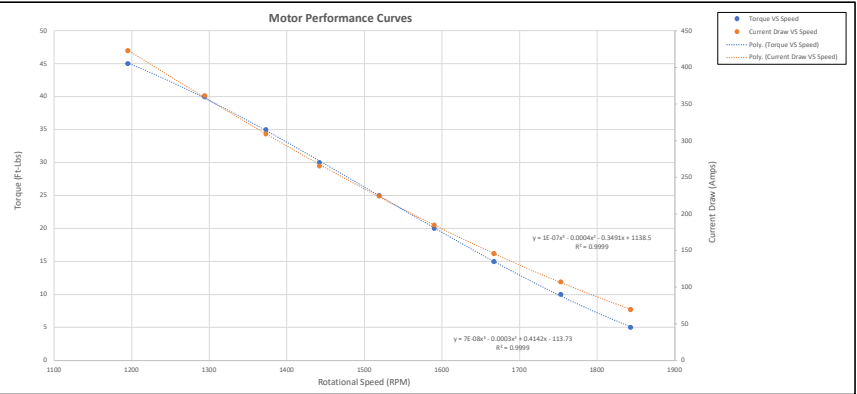
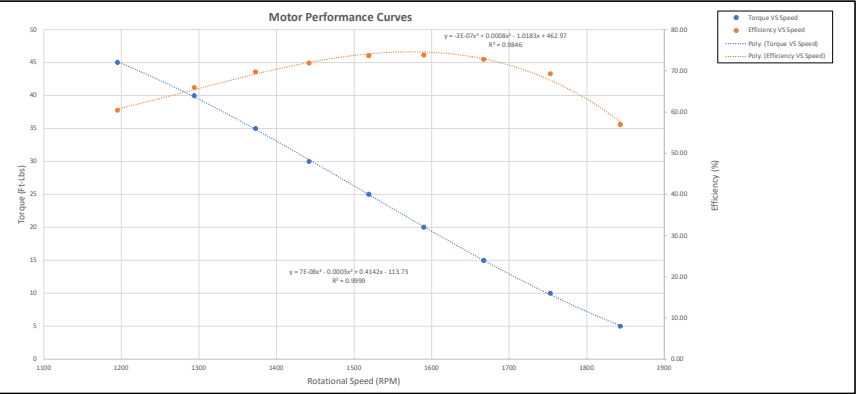
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 36 - (V * 0.015)

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	1996	35.7	33.8	20	15.04	48.84	2.02	1.14	56.44
5.01	1956	35.4	30.6	20.2	15.06	45.66	2.81	1.86	66.35
8	1899	35.1	24.7	20.3	15.06	39.76	3.92	2.89	73.72
10.01	1859	34.8	19.1	20.5	15.01	34.11	4.67	3.54	75.80
11.97	1824	34.6	107.6	20.7	15.06	122.66	5.4	4.16	77.04
14.99	1772	34.2	133.2	20.9	15.05	148.25	6.52	5.07	77.36
20	1704	33.6	176.9	21.1	15.07	191.97	8.38	6.49	77.45
24.99	1636	32.7	225	21.2	15.04	240.04	10.3	7.79	75.63
30.03	1548	31.8	280.3	21.4	14.92	295.22	12.37	8.85	71.54
34.98	1431	30.7	345.3	21.6	15.24	360.54	14.66	9.53	65.01



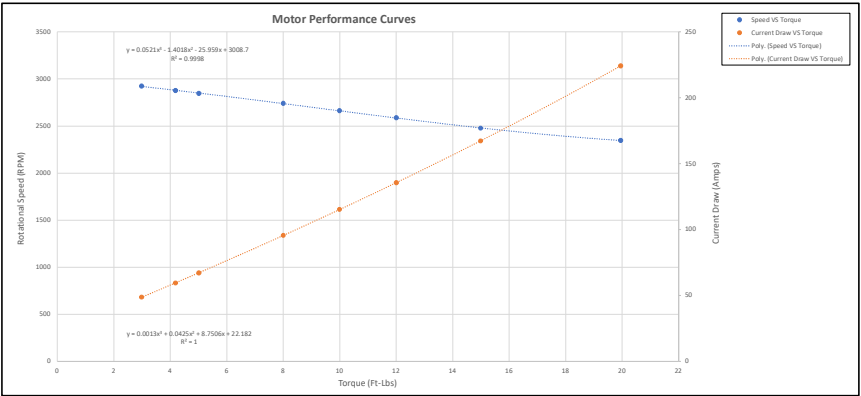
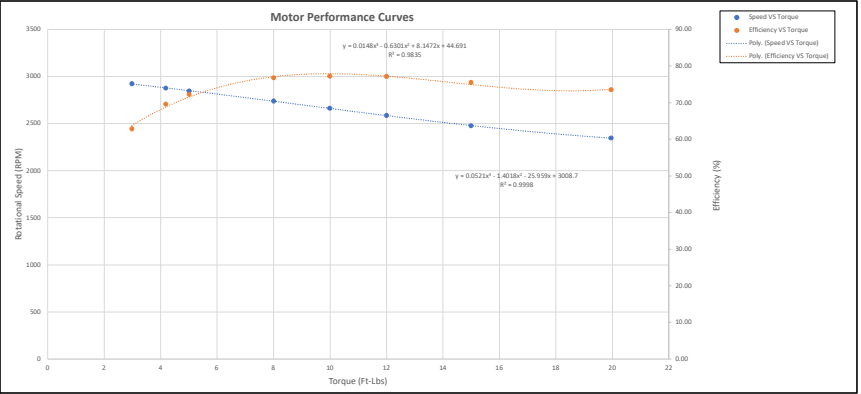
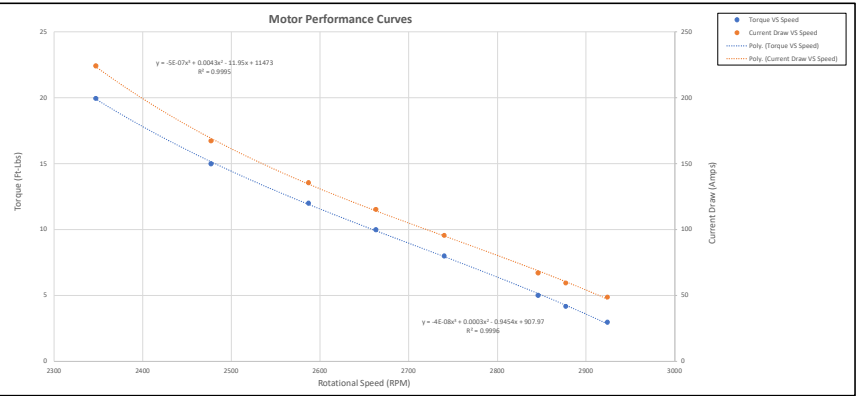
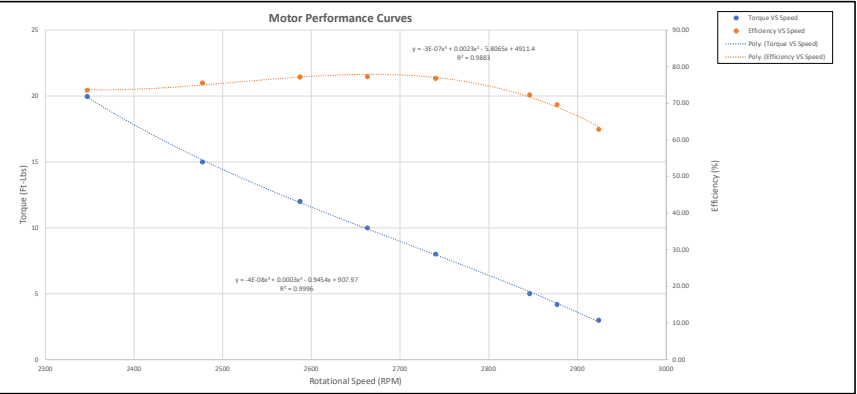
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage (V): 36 - (V ± 0.015)

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 (%)
5.02	1843	35.4	49.5	27.4	20.07	69.57	3.09	1.76	56.96
10.01	1733	34.9	87	27.9	20.09	107.09	4.82	3.34	69.25
14.99	1667	34.3	125.8	28.5	20.09	145.89	6.54	4.76	72.78
20.02	1590	33.7	164.6	29	20.09	184.69	8.21	6.06	73.81
25.02	1519	33	204.2	29.5	20.09	224.29	9.83	7.24	73.65
30	1442	32.4	245.1	30	20.21	265.31	11.45	8.23	71.88
35	1373	31.7	289.1	30.5	20.24	309.34	13.12	9.15	69.74
39.98	1294	30.9	341.1	31	20.07	361.17	14.94	9.85	65.93
45.01	1195	29.8	402.7	31.5	20.13	422.83	16.95	10.24	60.41



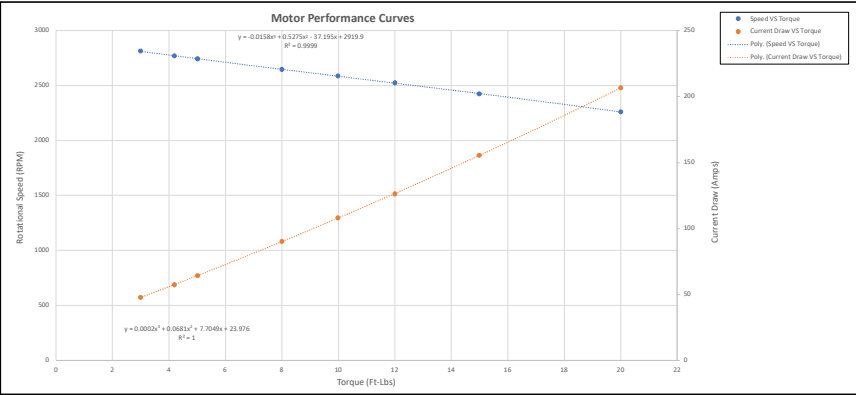
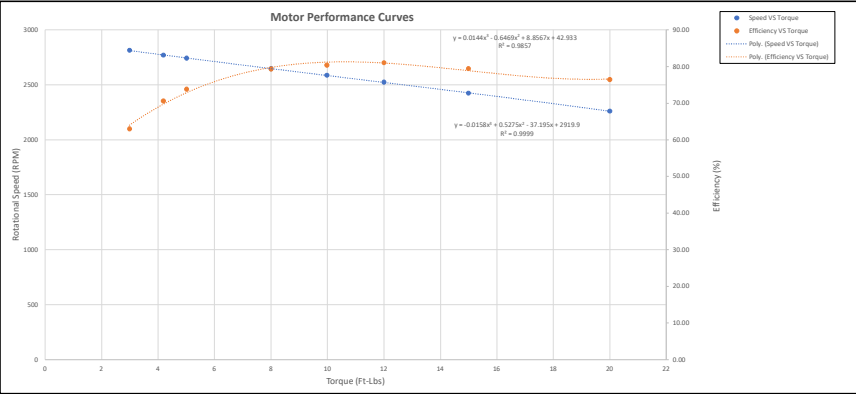
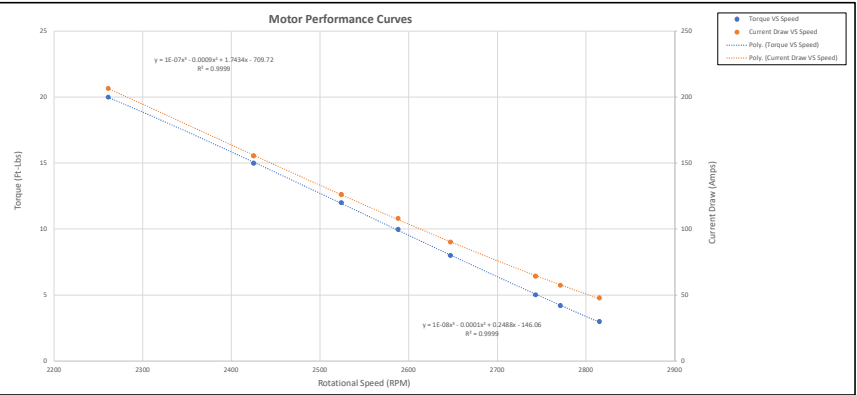
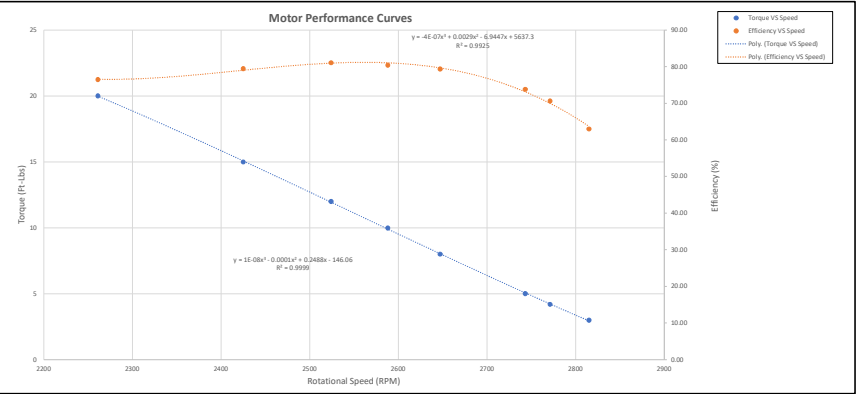
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 48 - (1" ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage [V(AC)]	Armature Current [Amps]	Field Voltage [V(AC)]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency (%)
2.98	2924	47.1	38.8	14.2	10.02	48.82	2.64	1.66	62.88
4.48	2877	46.8	49.4	14.3	10.08	59.48	3.29	2.29	69.90
5.01	2846	46.5	57.1	14.3	10.02	67.12	3.75	2.71	72.27
8	2740	45.6	85.6	14.4	10.01	95.61	5.43	4.17	76.80
9.99	2663	45.1	105.3	14.4	10.05	115.35	6.55	5.06	77.25
12	2587	44.4	125.5	14.4	10.04	135.54	7.66	5.91	77.15
14.99	2477	43.5	157.4	14.5	9.88	167.28	9.36	7.07	75.53
19.95	2347	41.6	214.2	14.5	9.99	224.19	12.13	8.92	73.54



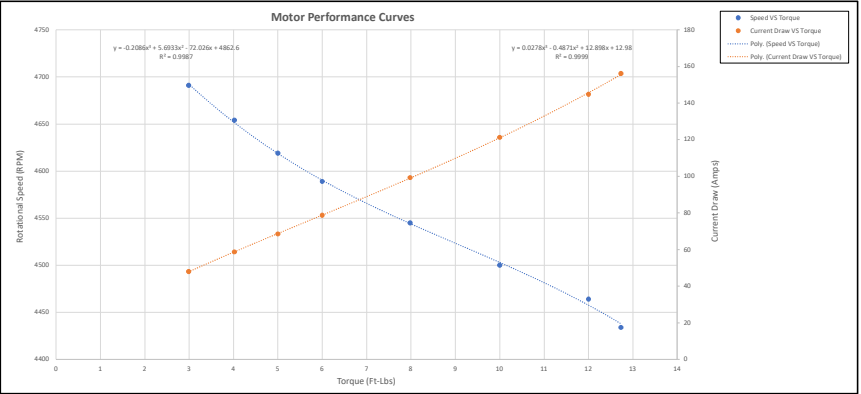
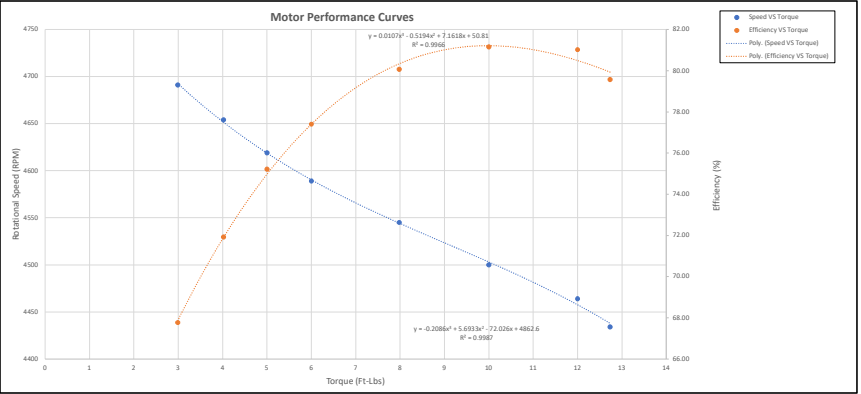
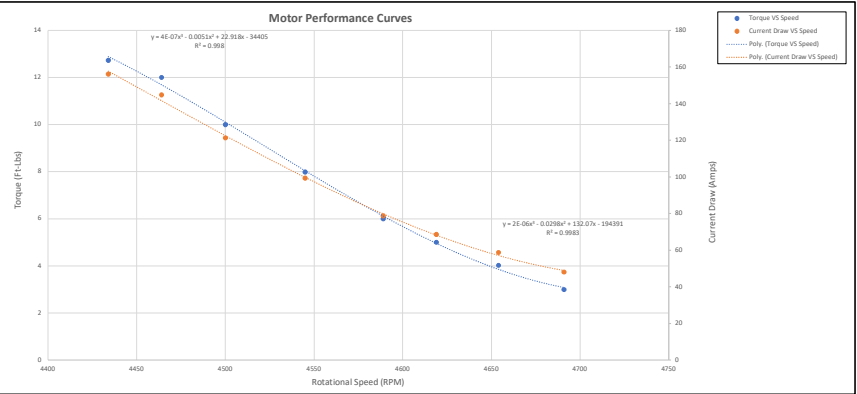
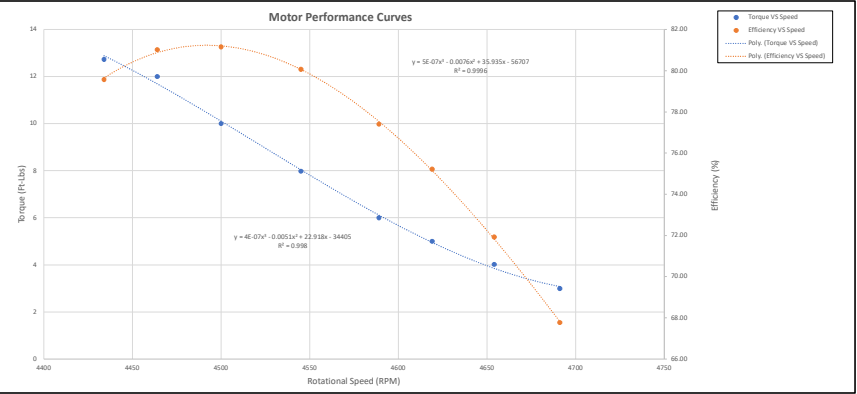
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 48 - (1 ± 0.015)

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 (%)
2.99	2815	47.2	35.7	17.3	12.04	47.74	2.54	1.6	62.99
4.49	2771	46.9	45.3	17.3	12.01	57.31	3.43	2.21	70.61
5.01	2743	46.7	52.2	17.4	12.06	64.36	3.55	2.62	73.80
8	2647	45.8	78.1	17.5	12.03	90.13	5.08	4.03	79.33
9.98	2588	45.3	96	17.6	12.08	108.08	6.12	4.92	80.39
12	2524	44.7	114.1	17.6	12.09	126.19	7.12	5.77	81.04
14.99	2425	43.9	143.4	17.7	12.06	155.46	8.71	6.92	79.45
20	2261	42.1	194.8	17.8	11.87	206.67	11.26	8.61	76.47



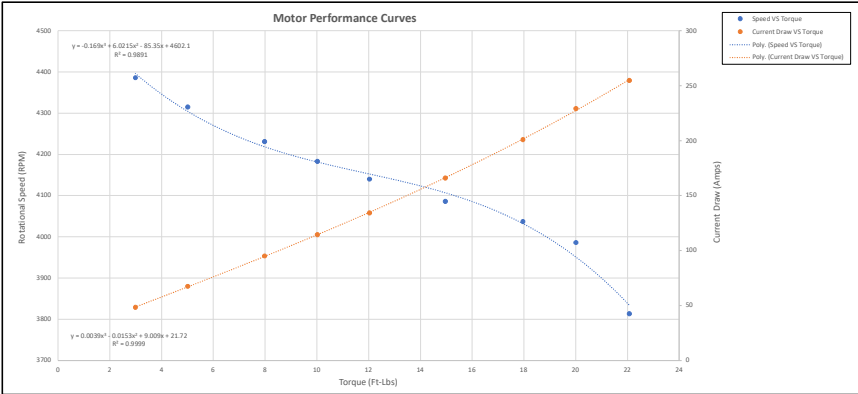
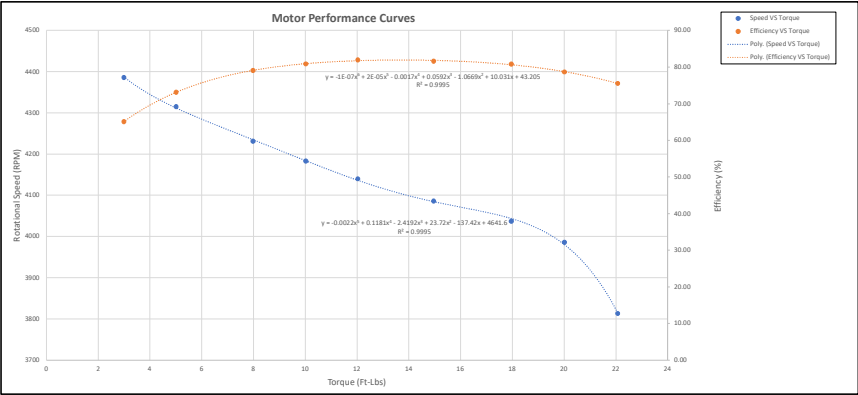
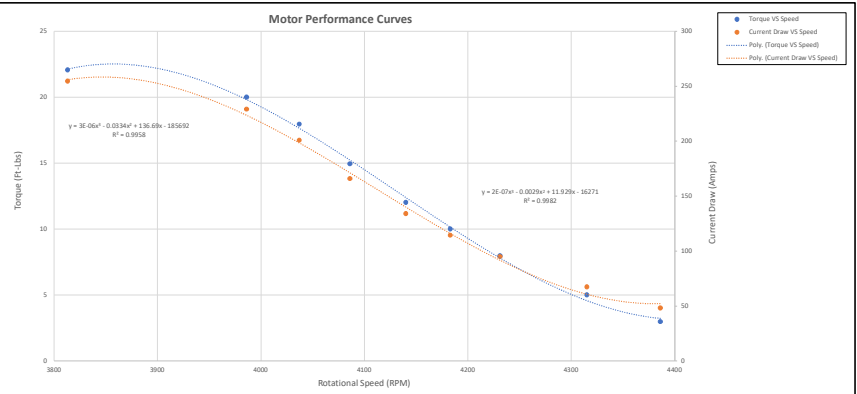
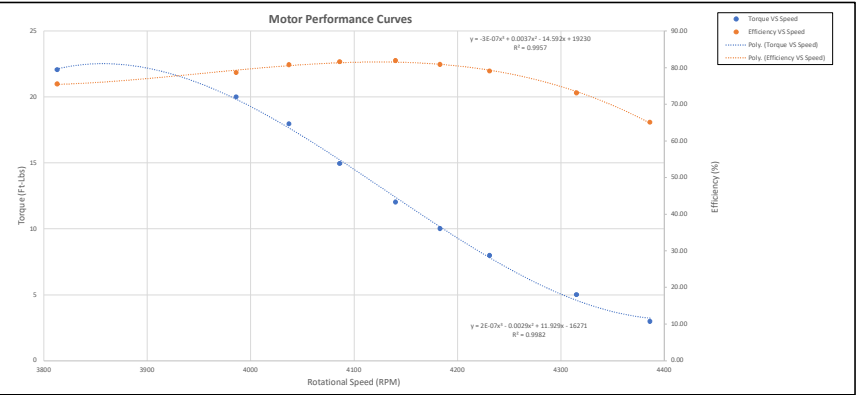
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 72 - (0 ± 0.030)

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	4691	71.3	40	11.3	8.05	48.05	3.94	2.67	67.77
4.02	4654	70.9	50.7	11.3	8.04	58.74	4.95	3.56	71.92
5	4619	70.6	60.5	11.3	8.04	68.54	5.85	4.4	75.21
6	4589	70.2	70.7	11.3	8.05	78.75	6.77	5.24	77.40
7.98	4545	69.5	91.3	11.3	8.01	99.31	8.63	6.91	80.07
10	4500	68.8	113.2	11.3	8.05	121.25	10.56	8.57	81.16
12	4464	68	136.8	11.3	7.99	144.79	12.59	10.2	81.02
12.73	4434	67.4	148.2	11.4	7.84	156.14	13.51	10.75	79.57



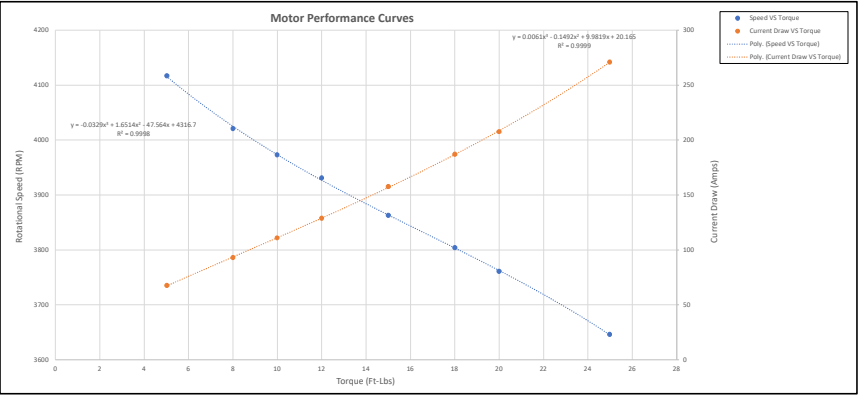
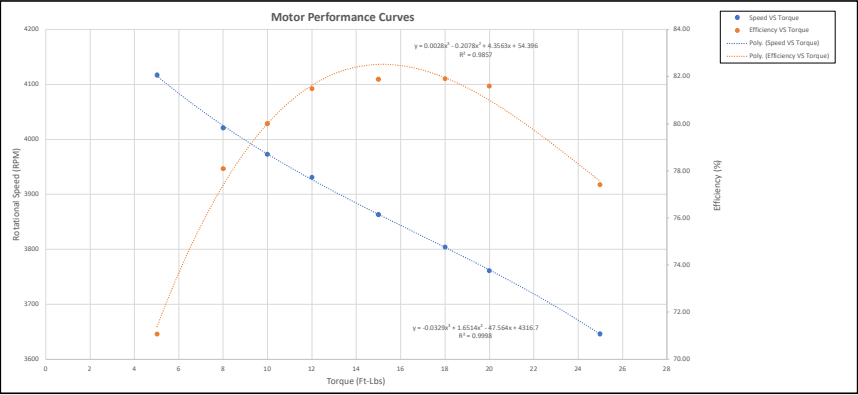
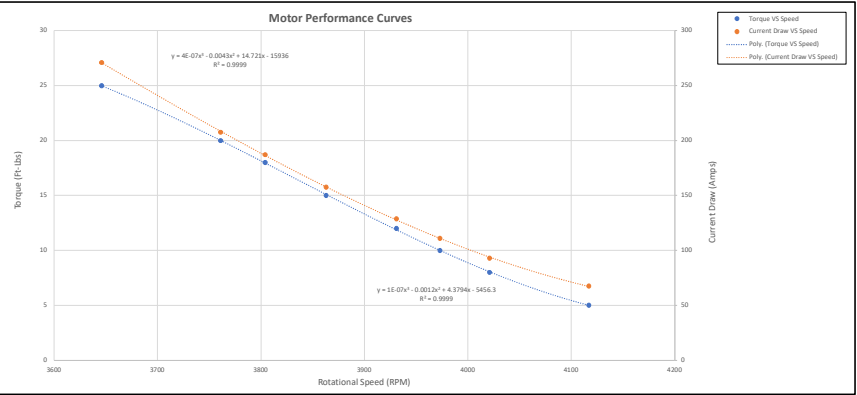
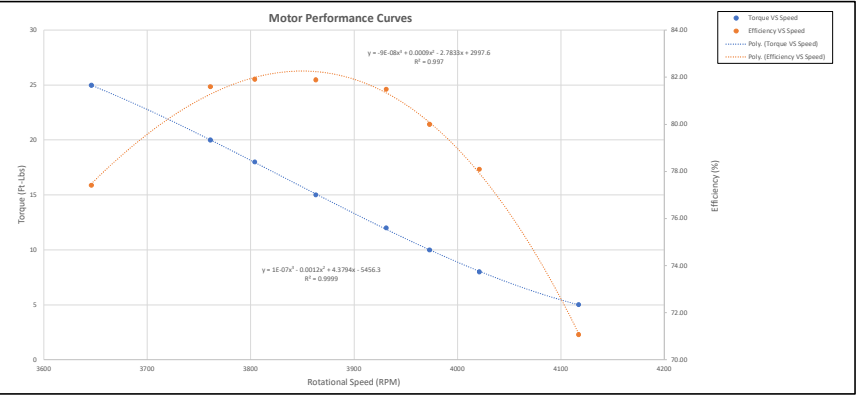
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage (V): 72 - (V * 0.030)

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	4386	71.3	38.2	13.9	10.03	48.23	3.84	2.5	65.10
5.01	4315	70.7	37.4	13.9	10.03	47.43	5.62	4.11	73.13
7.98	4231	69.8	34.9	14	10.14	45.04	8.13	6.43	79.09
10.02	4183	69.2	104.4	14	10.05	114.45	9.87	7.98	80.85
12.03	4140	68.4	124.1	14	10.05	134.15	11.57	9.48	81.94
14.96	4096	67.2	156.1	14.1	9.96	166.06	14.26	11.64	81.63
17.96	4037	66.1	190.9	14.1	10.04	200.94	17.09	13.81	80.81
20.01	3986	65.1	219.2	14.2	9.98	229.18	19.31	15.19	78.66
22.07	3813	64.1	244.6	14.2	10.09	254.69	21.21	16.02	75.53



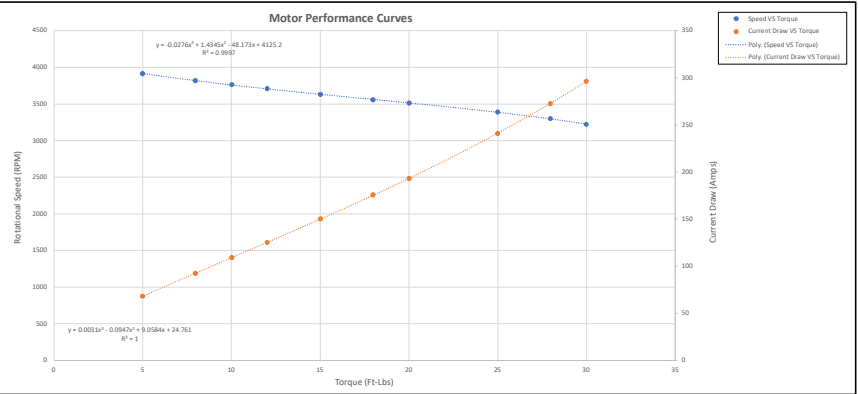
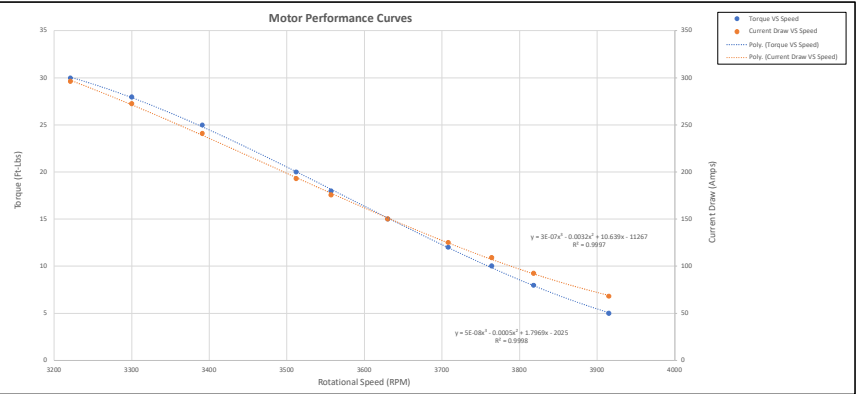
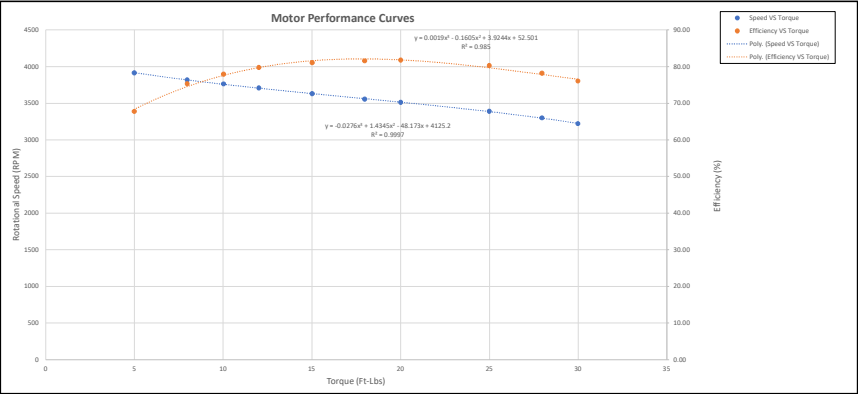
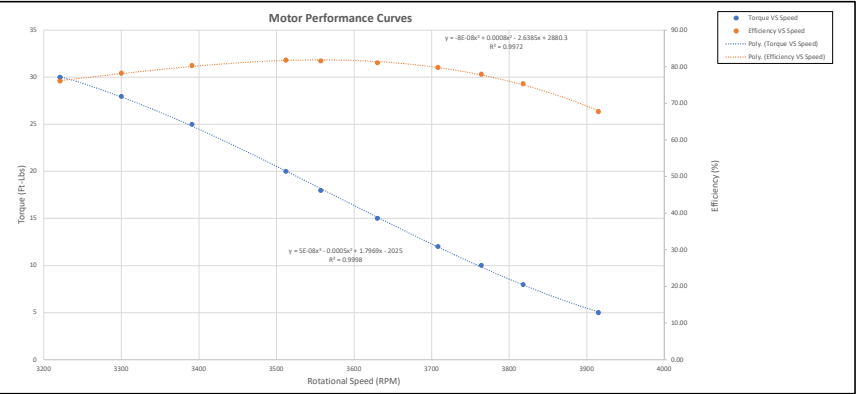
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 72 - (V * 0.030)

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 (%)
5.02	4117	70.8	55.5	16.2	12.08	67.58	5.53	3.93	71.07
8	4021	69.9	81	16.3	12.09	93.09	7.85	6.13	78.09
9.99	3973	69.3	98.9	16.4	12.02	110.92	9.45	7.56	80.00
12	3931	68.7	116.8	16.5	12.08	128.85	11.02	8.98	81.49
15	3863	67.7	145.5	16.6	12.05	157.6	13.47	11.09	81.89
18	3804	66.7	175	16.6	12.1	187.07	15.92	13.04	81.91
19.99	3761	66	195.5	16.7	12.07	207.56	17.55	14.32	81.60
24.98	3646	63.8	258.9	16.8	12.06	270.96	22.4	17.34	77.41



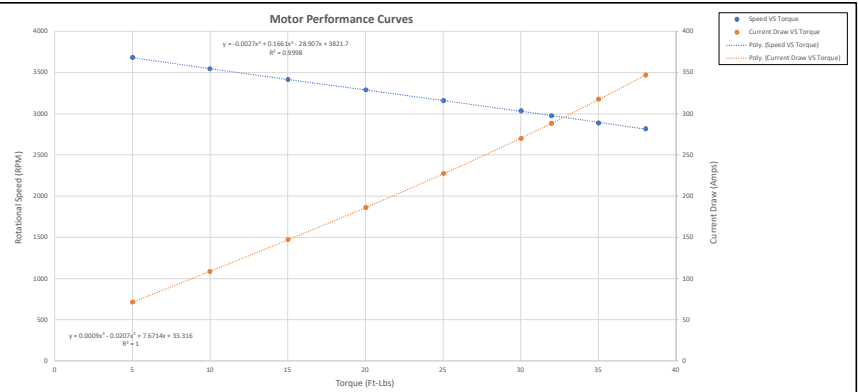
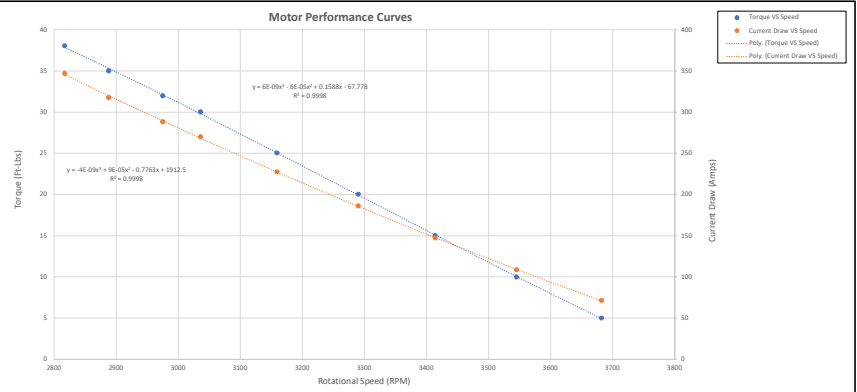
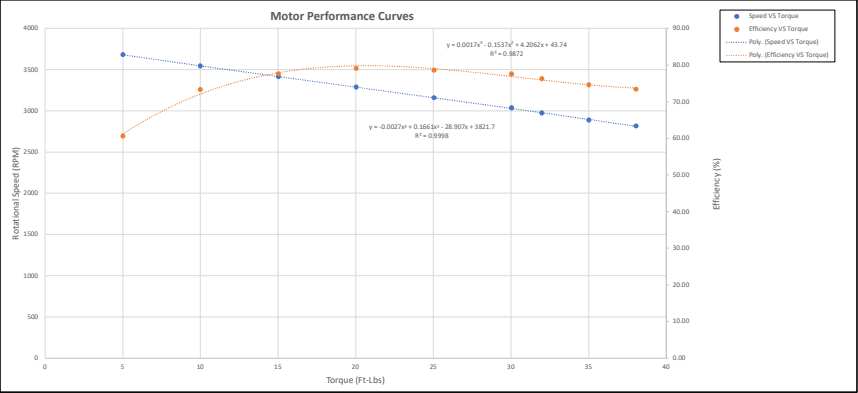
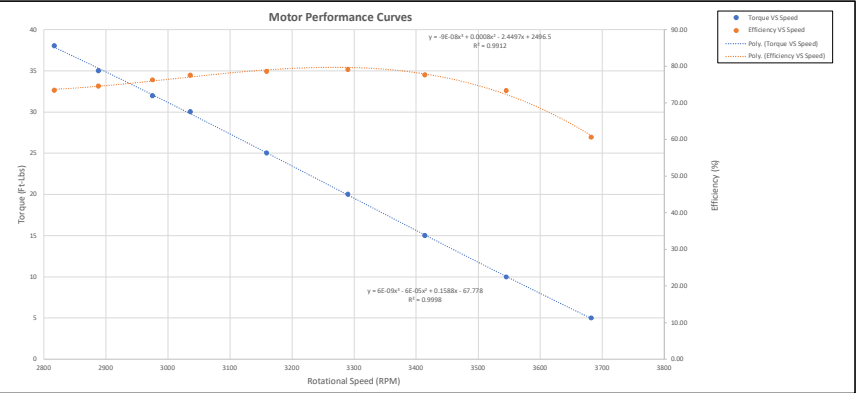
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage (V): 72 - (V * 0.030)

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 (%)
4.99	3915	70.9	53.1	22	15.06	68.16	5.49	3.72	67.76
7.97	3818	70	77.3	22.4	15.06	92.35	7.7	5.8	75.32
10.02	3764	69.5	94	22.3	15.1	109.1	9.21	7.18	77.86
12.01	3708	69	110.1	22.4	15.08	125.18	10.63	8.48	79.77
15.01	3630	68.1	135.1	22.6	15.07	150.17	12.79	10.37	81.08
17.97	3552	67.2	160.6	22.7	15.05	175.65	14.92	12.17	81.57
20	3512	66.6	178.1	22.9	14.99	193.09	16.35	13.37	81.77
24.99	3391	64.8	226	23.1	14.95	240.95	20.1	16.14	80.30
27.96	3300	63.7	257.6	23.2	14.93	272.53	22.46	17.57	78.23
29.98	3221	62.9	281.1	23.4	15.00	296.22	24.18	18.39	76.05



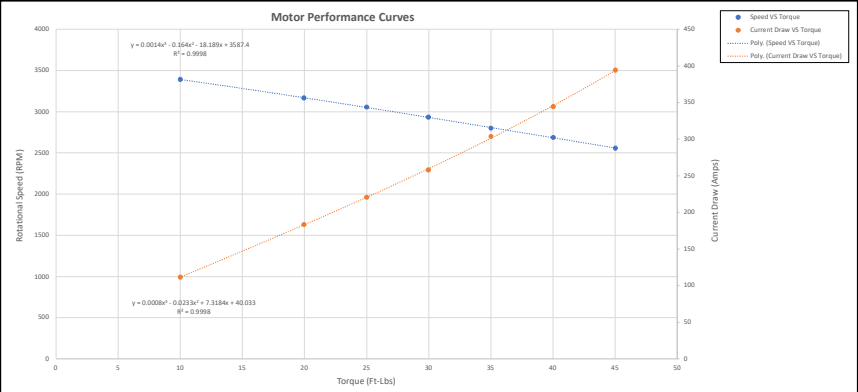
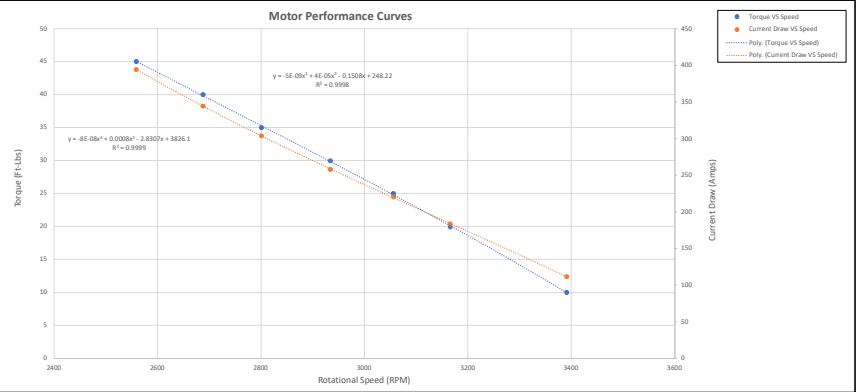
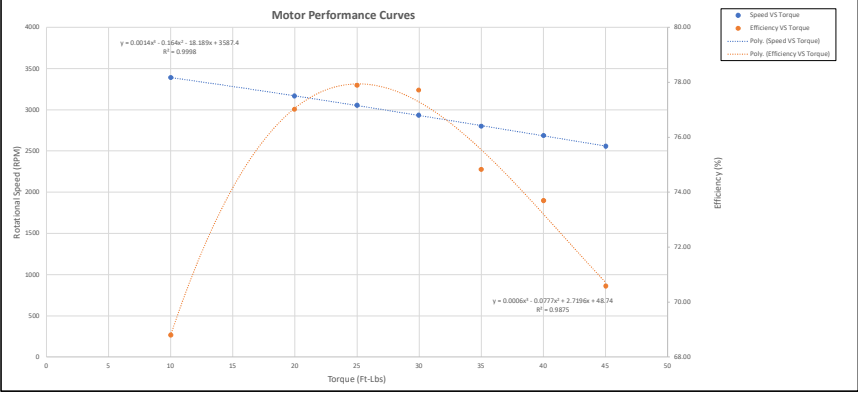
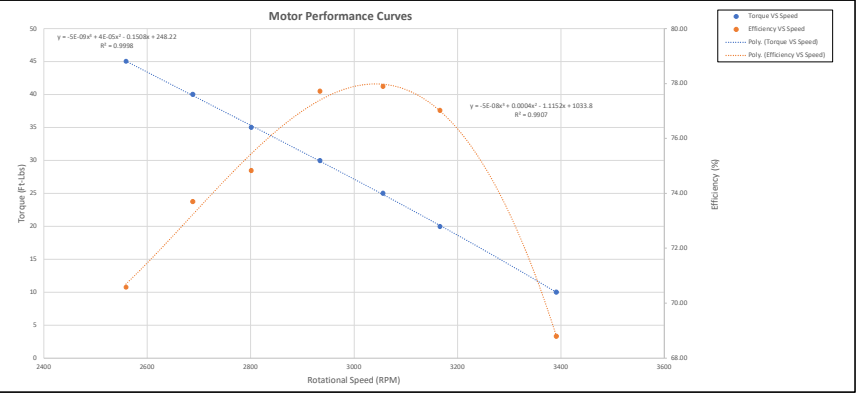
Engineering Performance Test Report
Performance Spec (PS) Number: 33
System Voltage [V]: 72 - (V * 0.030)

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	3682	70.9	51.3	33.9	20.11	71.41	5.79	3.51	60.62
9.99	3545	69.6	88.5	34.2	20.13	108.63	8.19	6.74	73.34
15.02	3414	68.3	127.1	34.6	20.15	147.25	12.57	9.76	77.65
20.03	3290	67	166.1	34.9	20.1	186.2	15.85	12.54	79.12
25.04	3159	35.5	207.5	35.2	20.04	227.54	19.16	15.06	78.60
30.03	3036	63.9	249.9	35.5	20.09	269.99	22.38	17.36	77.57
31.98	2975	63.3	268.4	35.9	19.9	288.3	23.74	18.11	76.28
35.01	2888	62.2	287.4	36.2	20.33	317.73	25.8	19.25	74.61
38.05	2817	61.2	326.9	36.6	20.12	347.02	27.8	20.41	73.42



Engineering Performance Test Report
Performance Spec (PS) Number: 33
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 (%)
10	3391	69.7	86.6	38.5	25	111.6	9.39	6.46	68.80
19.96	3166	67.3	158.5	39.6	25.02	183.52	15.62	12.09	77.02
25	3056	66.1	195.6	40.6	24.98	220.58	18.68	14.55	77.89
29.96	2934	64.5	232.8	41.6	25.11	257.91	21.54	16.74	77.72
35	2801	63	278.6	42.6	25.09	303.69	24.95	18.67	74.83
40.01	2598	61.5	319.6	43.6	24.95	344.45	27.79	20.48	73.70
45.02	2559	59.8	369	44.6	25.19	394.19	31.07	21.93	70.58



Engineering Performance Test Report
Performance Spec (PS) Number: 33
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	3287	69.5	87.4	58	29.87	117.27	10.47	6.27	59.89
19.95	3016	66.8	100.3	59.6	29.88	130.28	16.78	11.45	68.24
30.06	2782	64.1	241.6	61.1	29.79	271.39	23.2	15.92	68.62
34.99	2676	62.6	280	62.8	29.81	309.81	26	17.83	68.58
39.97	2582	61.5	319.5	64.4	29.97	349.47	28.92	19.65	67.95
44.95	2504	60.4	354	66.1	29.8	383.8	31.2	21.43	68.47
50.02	2391	59	398.4	67.8	29.95	428.35	34.23	22.78	66.55

