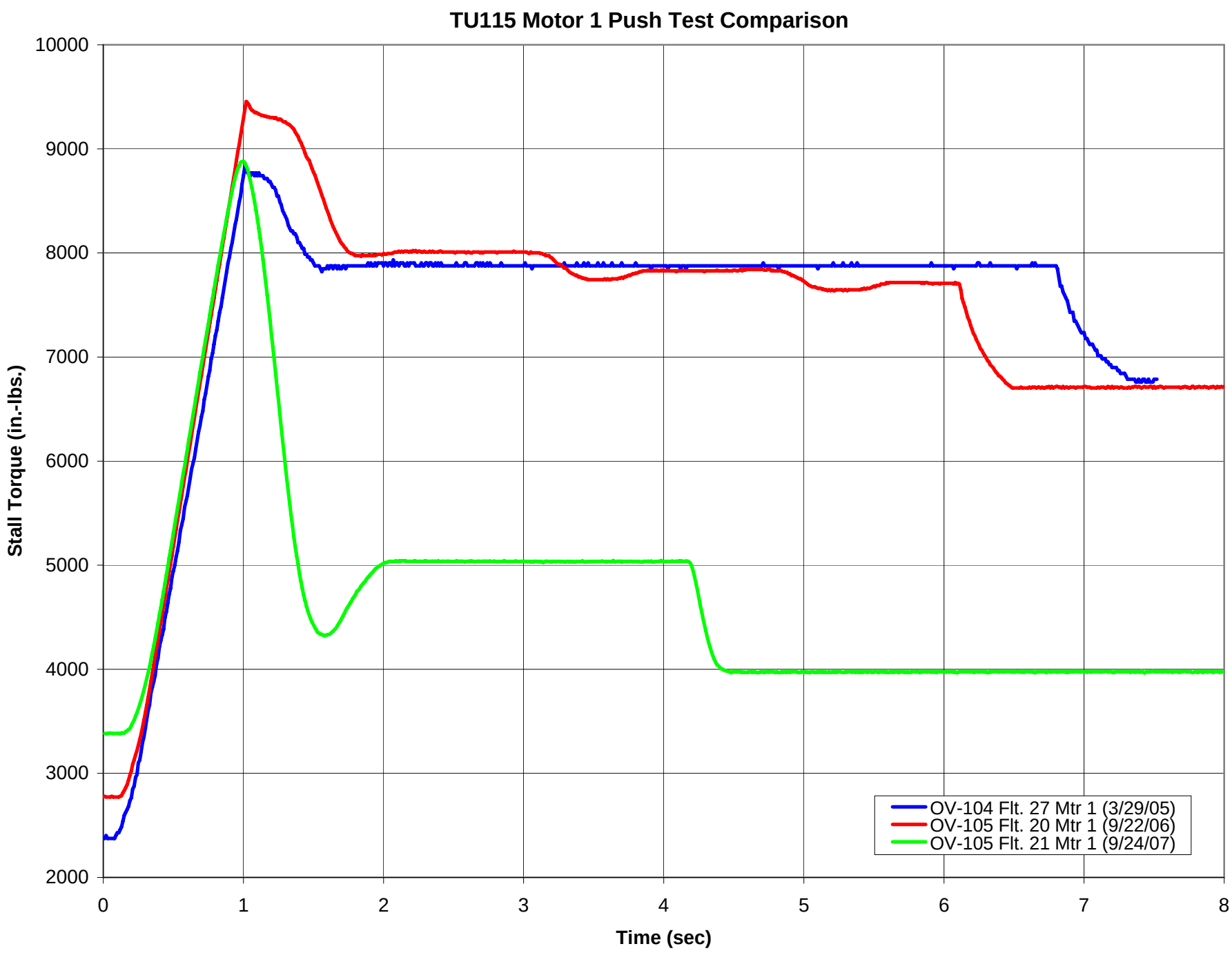
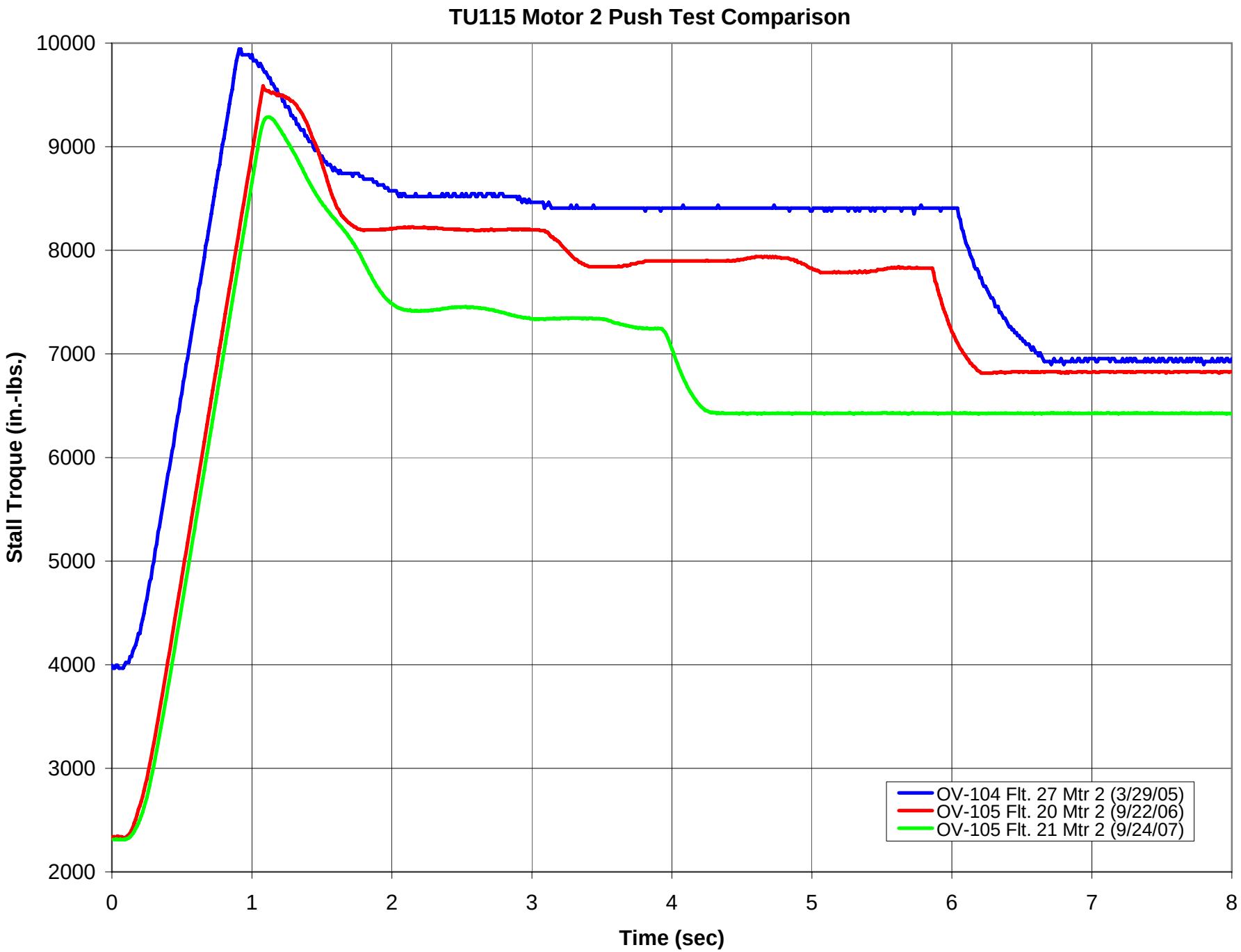
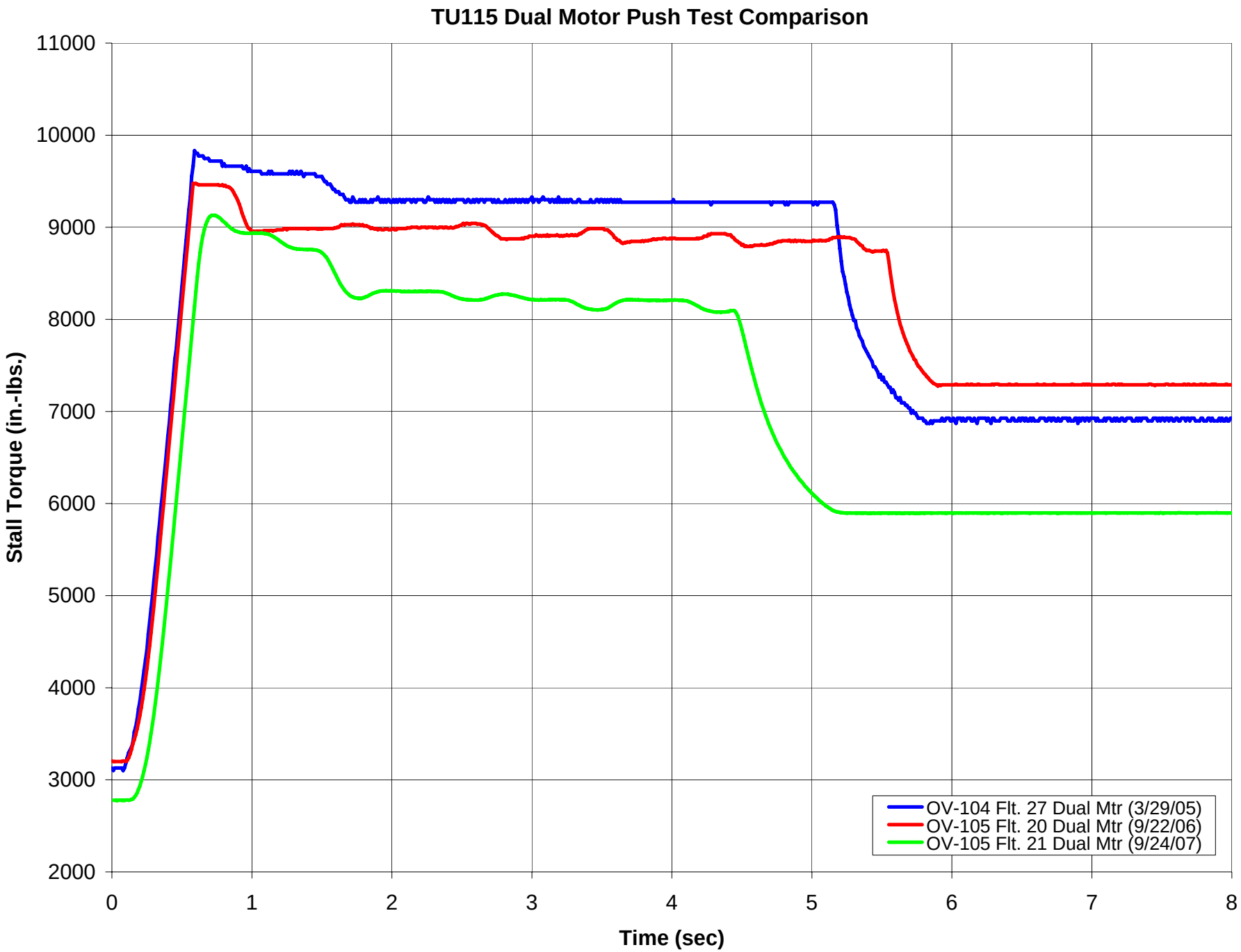
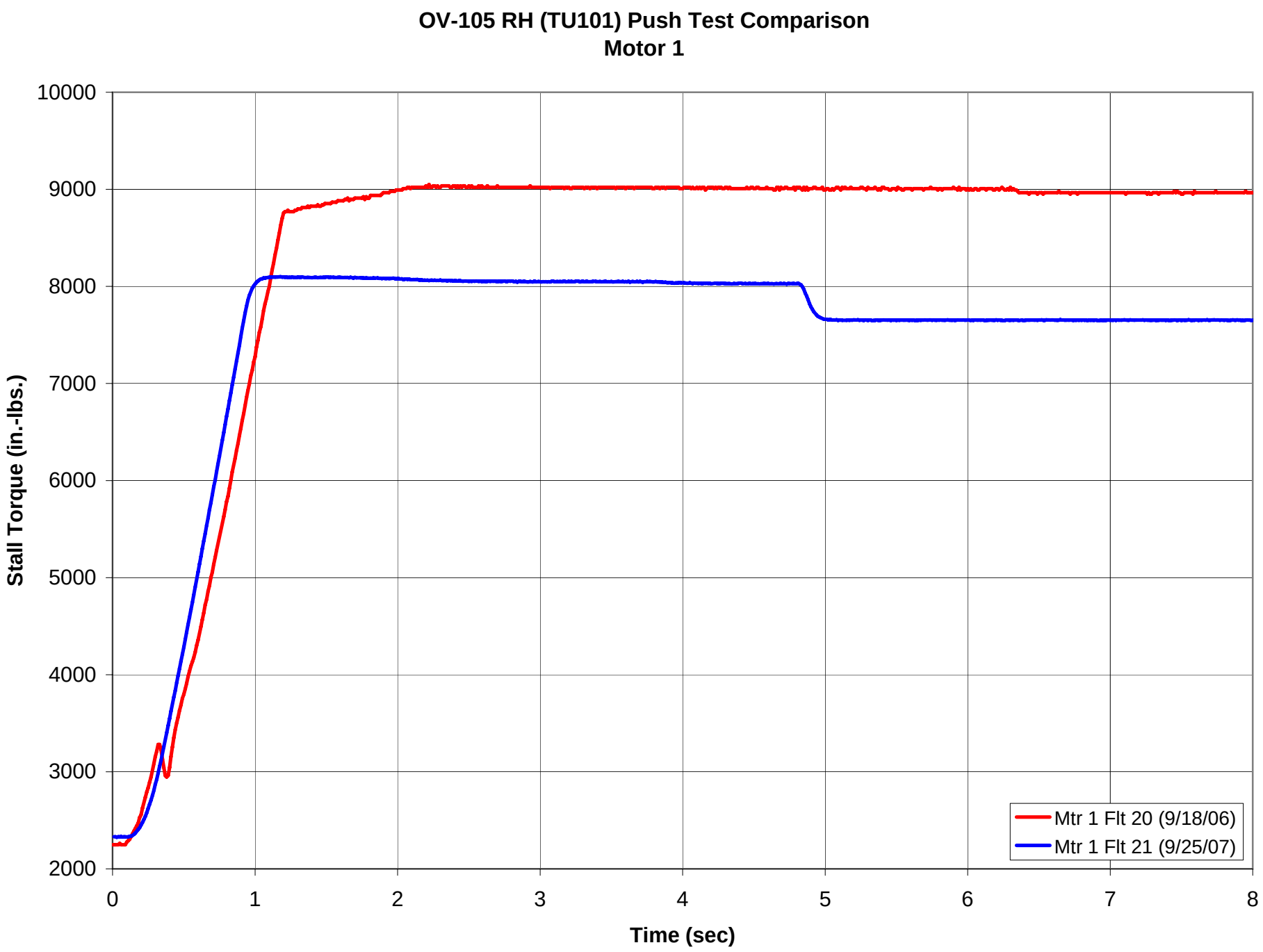
ET Door Drive PDU Stall Max Torque Data

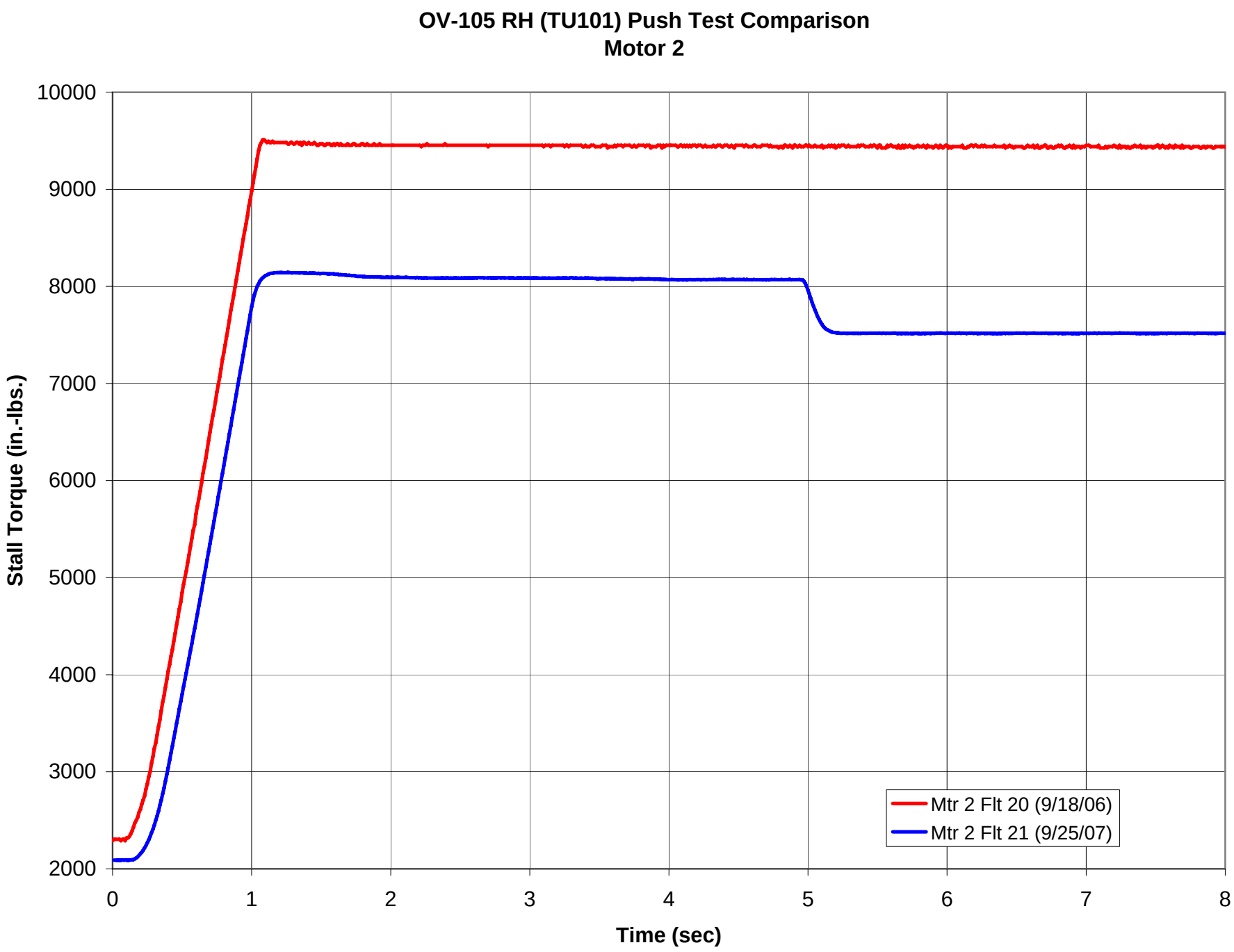
S/N	Current Location	Stall Torque (in.-lbs.) Min	Max	Date	Degradation from ATP min	Degradation from ATP max	Elapsed Time from ATP (years)	# of Cycles from ATP (estimated)
TU101	OV-105 RH							
Actuator Stall max torque @ ATP (1)		10,000	10,400	22-Jan-01	0.0%	0.0%	0.00	0
Actuator Stall max torque at Telair (1) (*)		7,200	8,400	29-May-02	28.0%	19.2%	1.35	0
ATP Stall Max Torque after reassembly		12,825	13,477	20-Apr-04	0.0%	0.0%	0.00	0
Supplemental Stall Max Torque test		12,709	13,549	26-May-04	0.9%	-0.5%	0.10	0
Supplemental Stall Max Torque test		12,162	13,485	27-Sep-04	5.2%	-0.1%	0.44	0
On-vehicle push test		9,049	9,510	18-Sep-06	29.4%	29.4%	2.41	
On-vehicle push test		8,100	8,381	25-Sep-07	36.8%	37.8%	3.43	
TU102	OV-104 RH							
Actuator Stall max torque @ above setting:		(4)	(4)					
Actuator Stall max torque @ ATP (1)		10,000	11,600	6-Jun-00	0.0%	0.0%	0.00	0
Actuator Stall max torque at Telair (2)		8,800	9,600	3-Apr-02	12.0%	17.2%	1.83	10
On-vehicle push test		8,323	8,630	18-Jun-05	16.8%	25.6%	5.03	
On-vehicle push test		7,720	9,602	17-Nov-06	22.8%	17.2%	6.45	
On-vehicle push test		9,065	9,489	24-Jul-07	9.4%	18.2%	7.13	
TU112	OV-103 RH							
Actuator Stall max torque @ above setting:		10,000	10,200	30-Jan-97				
Actuator Stall max torque @ ATP (1)		9,800	10,800	2-Jul-97	0.0%	0.0%	0.00	0
Actuator Stall max torque at Telair (2)		7,200	8,400	2-Apr-02	26.5%	22.2%	4.75	68
Actuator Incoming Stall Max Torque Test		6,645	6,840	1-Feb-06	32.2%	36.7%	8.58	
Stall Max Torque demo after reassembly		10,807	11,331	23-Feb-06	0.0%	0.0%	0.00	0
ATP Stall Max Torque after reassembly		10,066	10,906	26-Apr-06	6.9%	3.8%	0.18	
On-vehicle push test		9,352	10,107	29-Jun-07	13.5%	10.8%	1.35	
TU113	OV-103 LH							
Actuator Stall max torque @ above setting:		10,800	11,400	24-Apr-98				
Actuator Stall max torque @ ATP (1)		10,400	11,000	20-Jul-98	0.0%	0.0%	0.00	0
Actuator Stall max torque @ supplemental ATP (3)		9,600	10,400	20-Jul-01	7.7%	5.5%	3.00	0
Actuator Stall max torque at Telair (2)		7,600	8,400	2-Apr-02	26.9%	23.6%	3.70	0
ATP Stall Max Torque after reassembly		10,847	11,397	15-Aug-03	0.0%	0.0%	0.00	
Supplemental Stall Max Torque test		10,534	11,534	2-Oct-03	2.9%	-1.2%	0.13	0
Supplemental Stall Max Torque test		11,198	11,732	5-Nov-03	-3.2%	-2.9%	0.22	0
Supplemental Stall Max Torque test		11,116	11,702	20-Jan-04	-2.5%	-2.7%	0.43	0
Supplemental Stall Max Torque test		11,180	11,719	19-Feb-04	-3.1%	-2.8%	0.51	0
On-vehicle push test		9,720	10,069	14-Dec-05	10.4%	11.7%	2.33	
On-vehicle push test		9,042	9,887	22-Aug-06	16.6%	13.2%	3.02	
On-vehicle push test		9,144	9,563	29-Jun-07	15.7%	16.1%	3.87	
TU114	Telair							
Actuator Stall max torque @ above setting:		10,400	11,000	31-Jan-97	0.0%	0.0%	0.00	0
Actuator Stall max torque @ ATP (1)								
Actuator Stall max torque at Telair (2)		6,800		25-Mar-02	34.6%	100.0%	5.15	115
ATP Stall Max Torque after reassembly		11,740	12,442	21-Apr-03	0.0%	0.0%	0.00	
Supplemental Stall Max Torque test		11,508	12,007	19-Feb-04	2.0%	3.5%	0.83	
On-vehicle push test		10,865	11,366	11-Dec-04	7.5%	8.6%	1.64	
On-vehicle push test		8,127	10,166	13-Dec-05	30.8%	18.3%	2.64	
On-vehicle push test		7,932	9,733	22-Aug-06	32.4%	21.8%	3.34	
Incoming Stall Max Torque test		8,603	10,157	24-Oct-06	26.7%	18.4%	3.51	
Stall Max Torque test after clutch/brake replacement		9,065	9,616	22-Dec-06	22.8%	22.7%	3.67	
TU115	OV-105 LH							
Actuator Stall max torque @ ATP (1)		11,600	12,400	14-Feb-96	0.0%	0.0%	0.00	
Actuator Stall max torque @ supplemental ATP (1)		9,800	11,000	1-Dec-97	15.5%	11.3%	1.80	0
Actuator Stall max torque at Telair (1) (*)		7,200	8,000	29-May-02	37.9%	35.5%	6.29	60
On-vehicle push test		8,825	9,942	29-Mar-05	23.9%	19.8%	9.13	
On-vehicle push test		9,454	9,587	22-Sep-06	18.5%	22.7%	10.61	
On-vehicle push test		8,879	9,287	25-Sep-07	23.5%	25.1%	11.61	
TU116	OV-104 LH							
Actuator Stall max torque @ ATP (1)		11,600	13,200	14-Feb-96	0.0%	0.0%	0.00	0
Actuator Stall max torque @ supplemental ATP (1)		10,400	11,200	1-Dec-97	10.3%	15.2%	1.80	0
Actuator Stall max torque at Telair (1) (*)		8,800	9,600	29-May-02	24.1%	27.3%	6.29	52
On-vehicle push test		10,669	10,837	29-Mar-05	8.0%	17.9%	9.13	
On-vehicle push test		10,116	10,518	17-Nov-06	12.8%	20.3%	10.76	
On-vehicle push test		10,487	10,663	24-Jul-07	9.6%	19.2%	11.44	

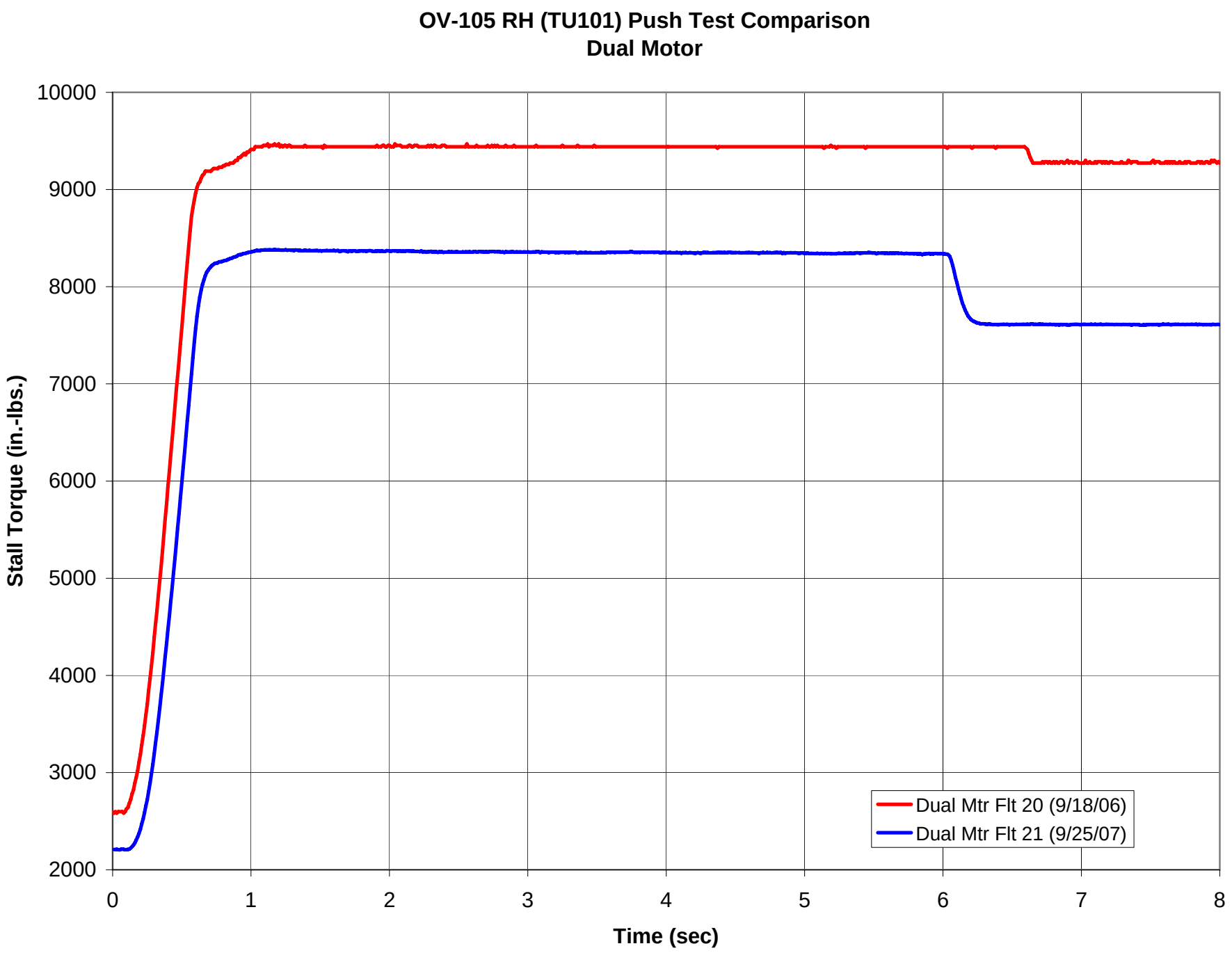

TU115 Motor 1 Push Test Comparison
Stall Torque (in.-lbs.)
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
8
Time (sec)
OV-104 Flt. 27 Mtr 1 (3/29/05)
OV-105 Flt. 20 Mtr 1 (9/22/06)
OV-105 Flt. 21 Mtr 1 (9/24/07)

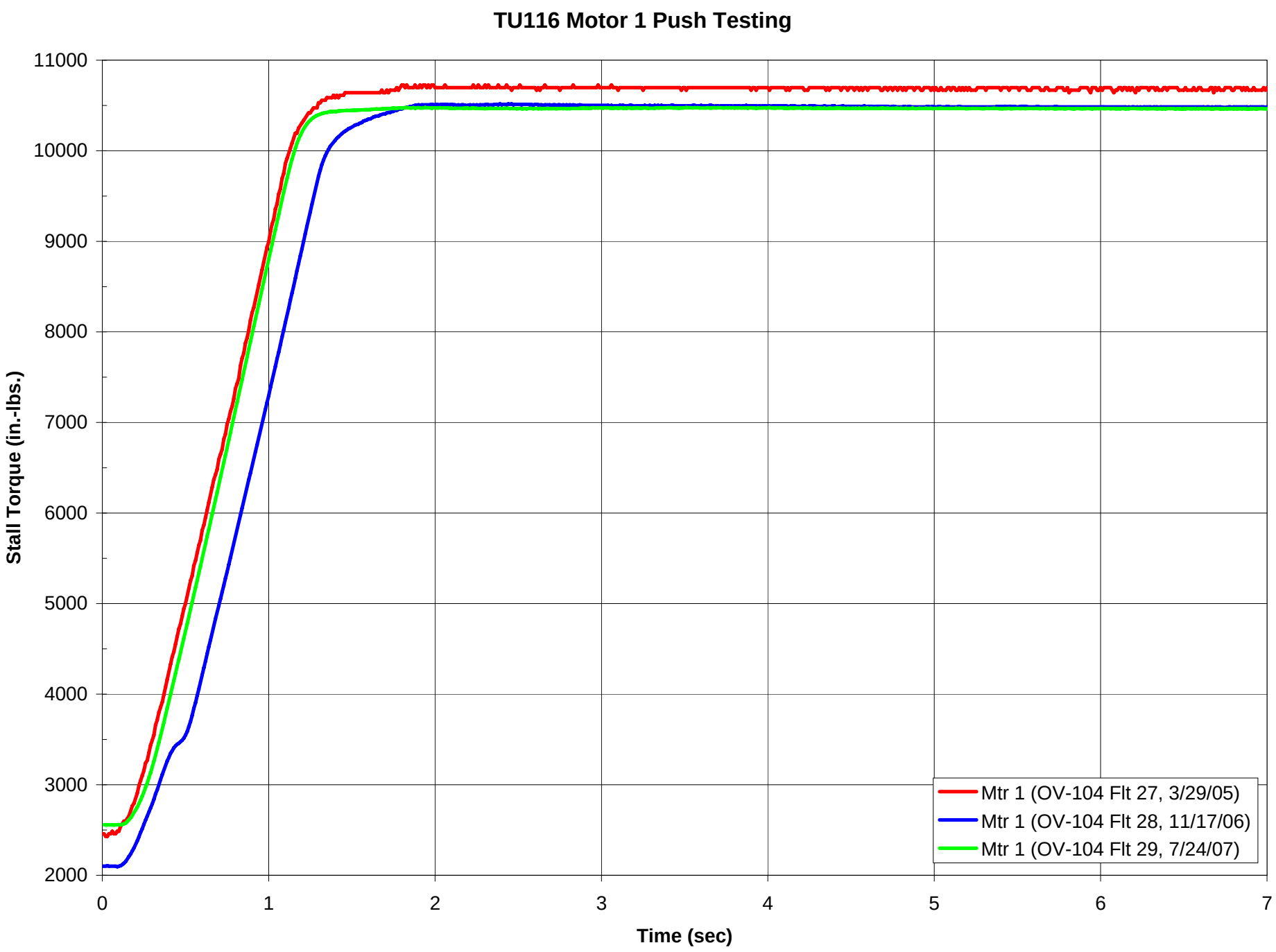

TU115 Motor 2 Push Test Comparison
Stall Troque (in.-lbs.)
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
8
Time (sec)
OV-104 Flt. 27 Mtr 2 (3/29/05)
OV-105 Flt. 20 Mtr 2 (9/22/06)
OV-105 Flt. 21 Mtr 2 (9/24/07)

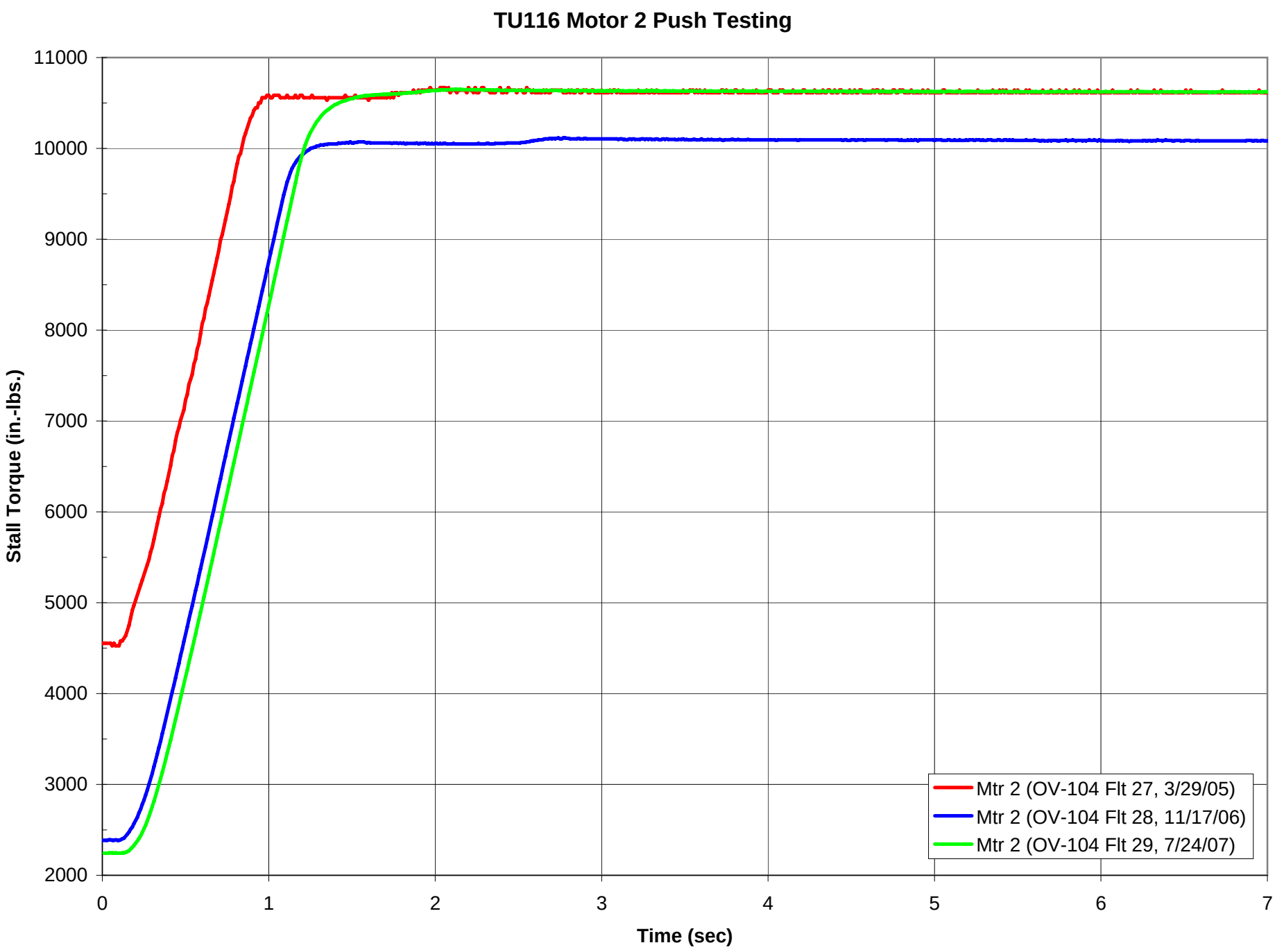

TU115 Dual Motor Push Test Comparison
Stall Torque (in.-lbs.)
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
8
Time (sec)
OV-104 Flt. 27 Dual Mtr (3/29/05)
OV-105 Flt. 20 Dual Mtr (9/22/06)
OV-105 Flt. 21 Dual Mtr (9/24/07)

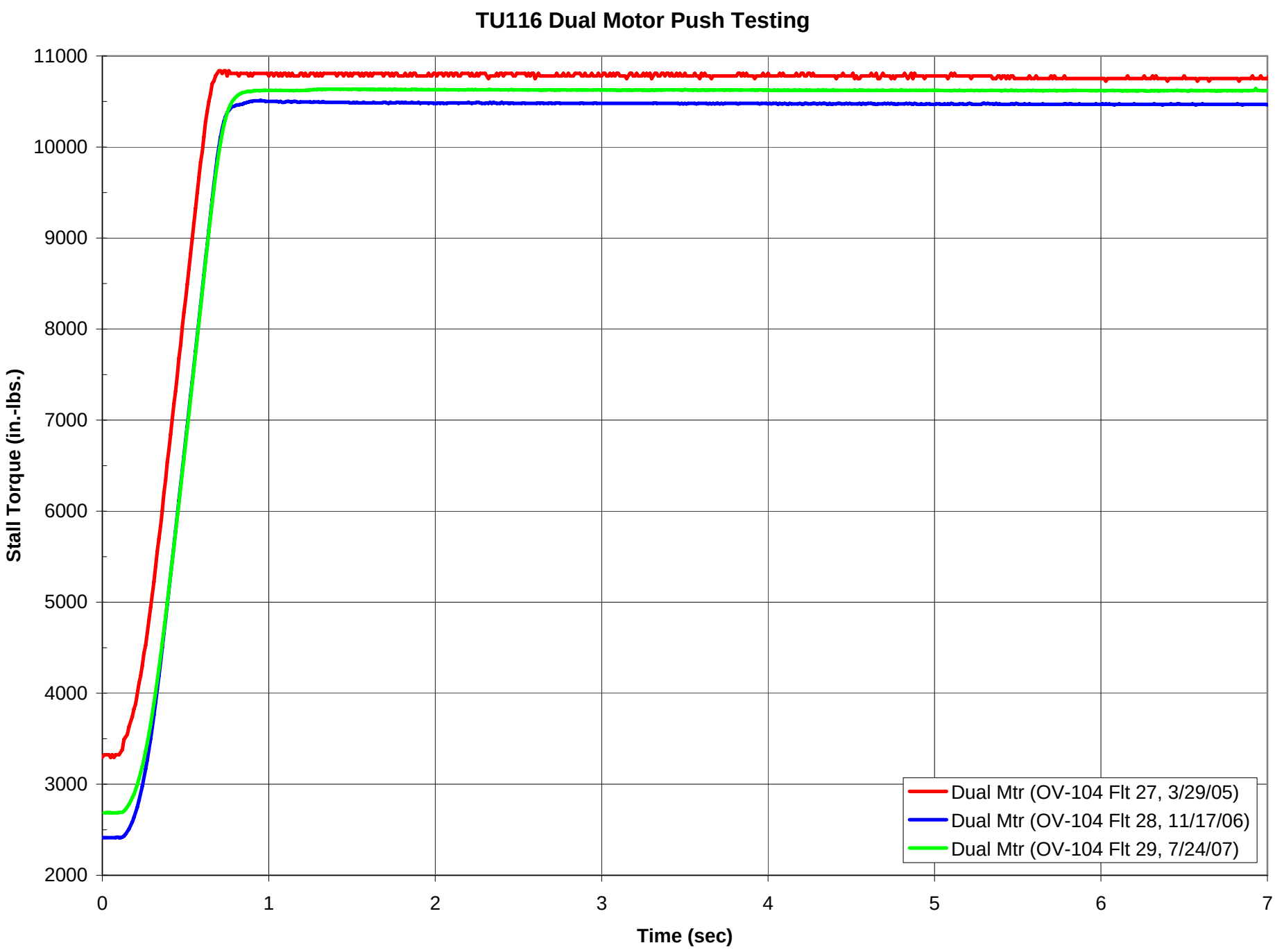

OV-105 RH (TU101) Push Test Comparison
Motor 1
Stall Torque (in.-lbs.)
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
8
Time (sec)
Mtr 1 Flt 20 (9/18/06)
Mtr 1 Flt 21 (9/25/07)

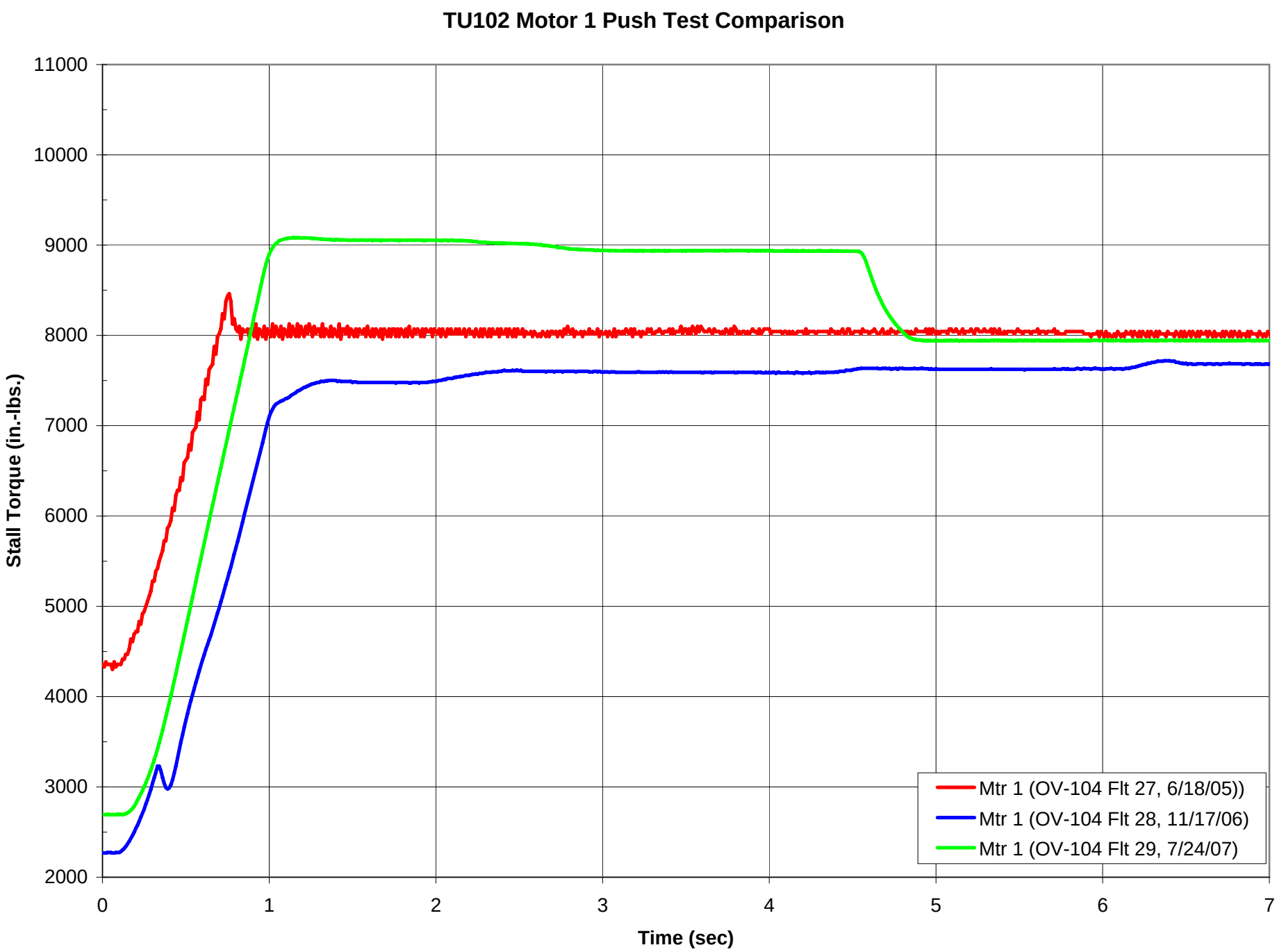

OV-105 RH (TU101) Push Test Comparison
Motor 2
Stall Torque (in.-lbs.)
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
8
Time (sec)
Mtr 2 Flt 20 (9/18/06)
Mtr 2 Flt 21 (9/25/07)

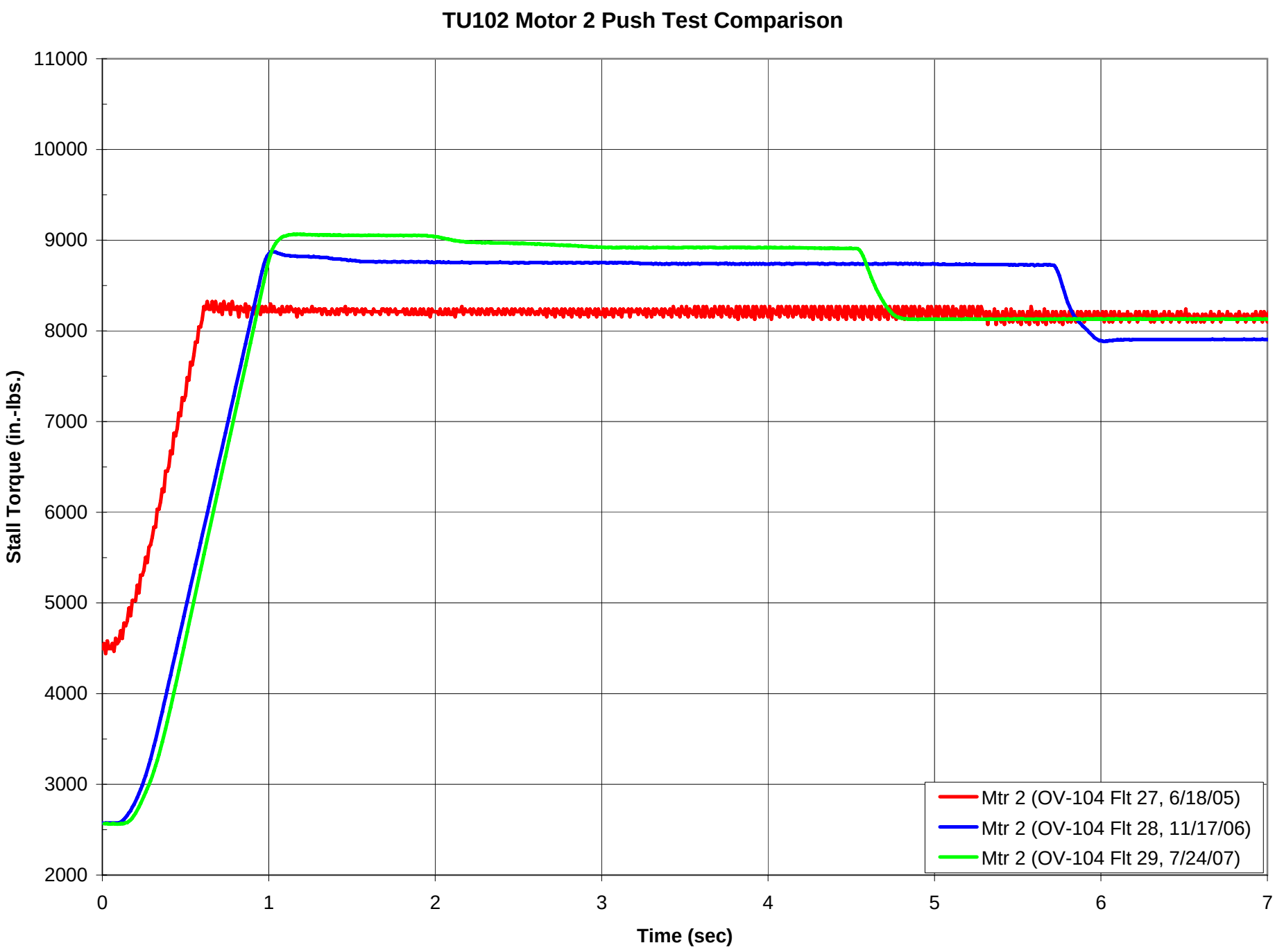

OV-105 RH (TU101) Push Test Comparison
Dual Motor
Stall Torque (in.-lbs.)
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
8
Time (sec)
Dual Mtr Flt 20 (9/18/06)
Dual Mtr Flt 21 (9/25/07)

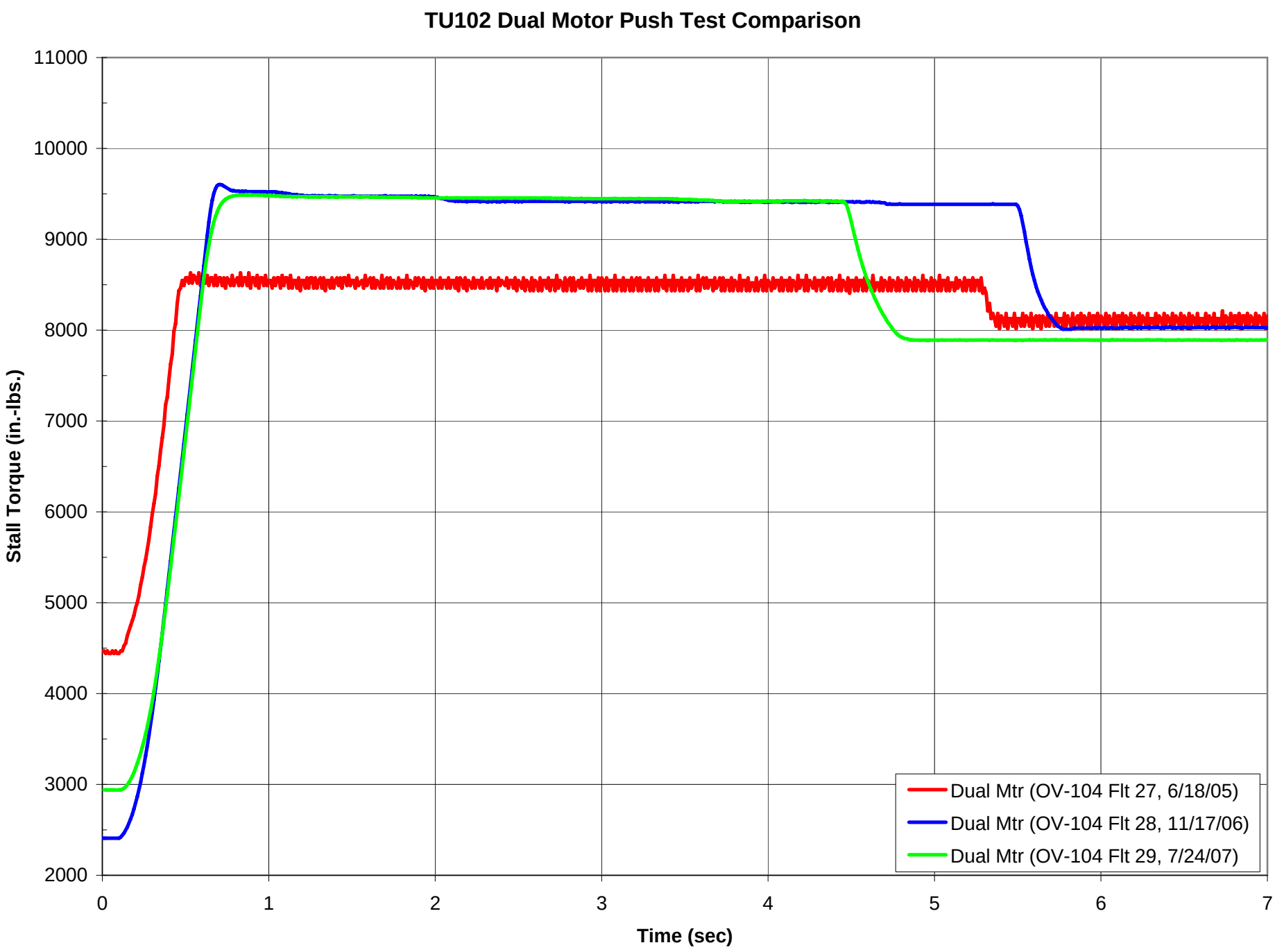

TU116 Motor 1 Push Testing
Stall Torque (in.-lbs.)
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
Time (sec)
Mtr 1 (OV-104 Flt 27, 3/29/05)
Mtr 1 (OV-104 Flt 28, 11/17/06)
Mtr 1 (OV-104 Flt 29, 7/24/07)

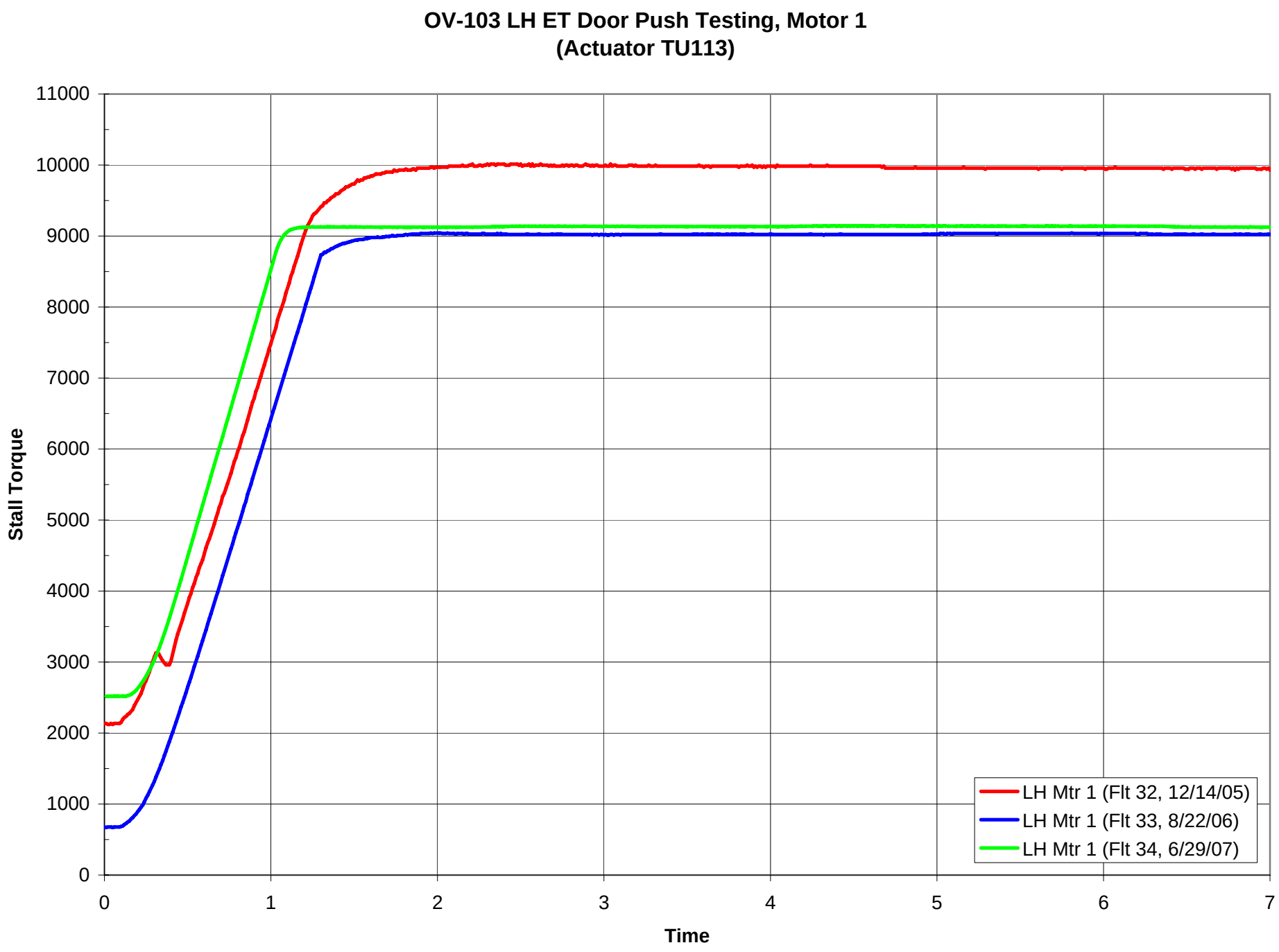

TU116 Motor 2 Push Testing
Stall Torque (in.-lbs.)
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
Time (sec)
Mtr 2 (OV-104 Flt 27, 3/29/05)
Mtr 2 (OV-104 Flt 28, 11/17/06)
Mtr 2 (OV-104 Flt 29, 7/24/07)

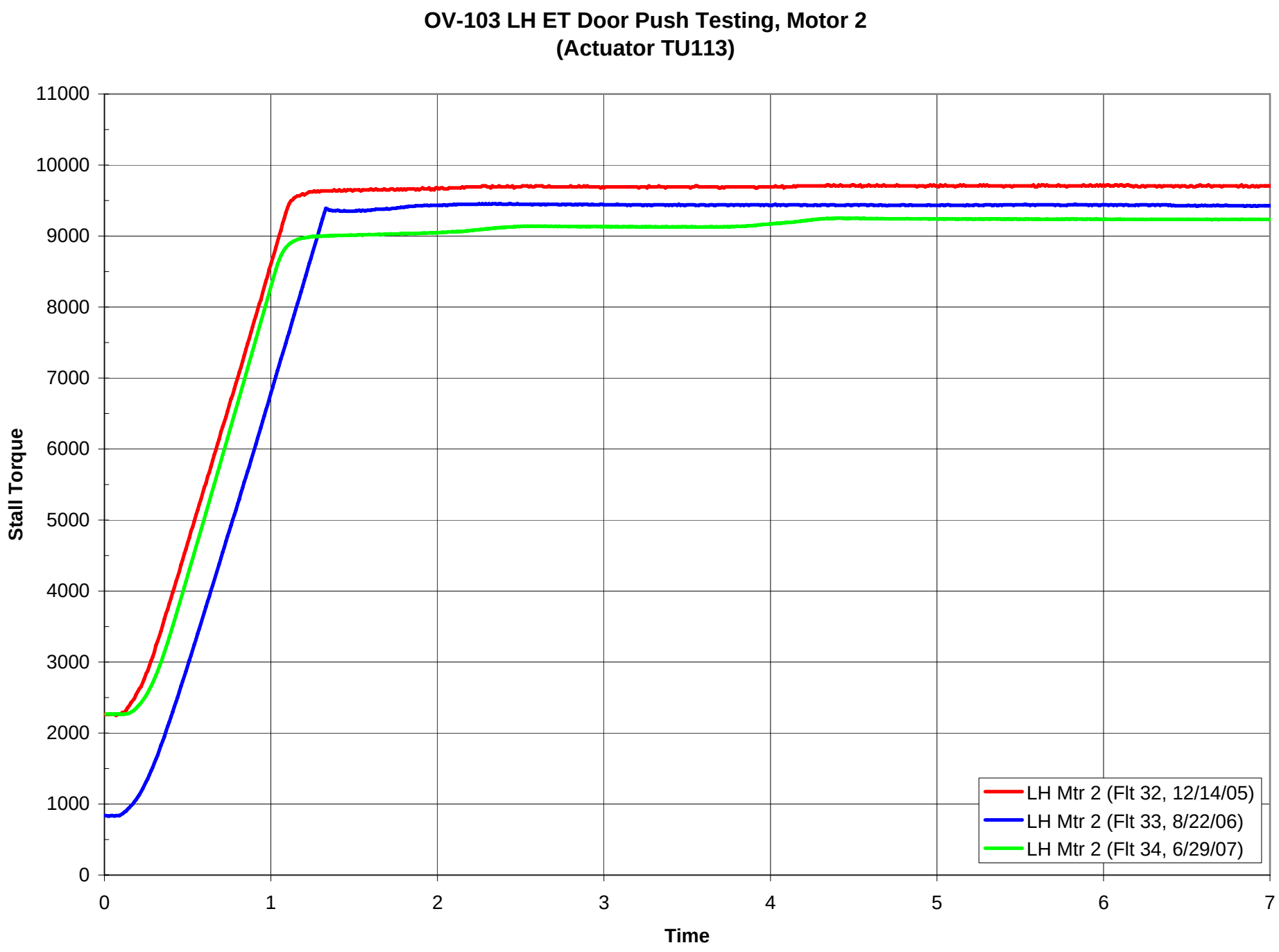

TU116 Dual Motor Push Testing
Stall Torque (in.-lbs.)
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
Time (sec)
Dual Mtr (OV-104 Flt 27, 3/29/05)
Dual Mtr (OV-104 Flt 28, 11/17/06)
Dual Mtr (OV-104 Flt 29, 7/24/07)

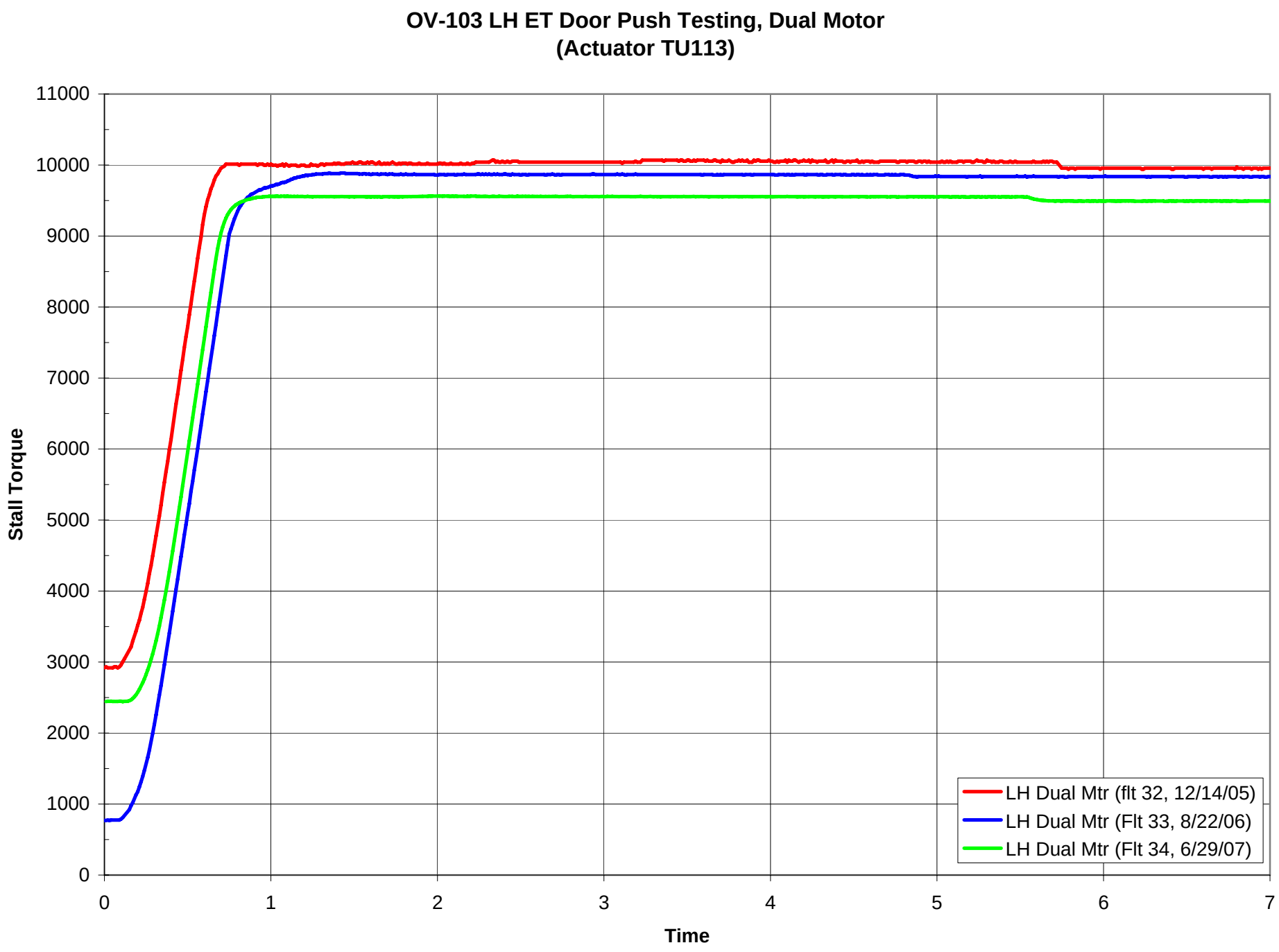

TU102 Motor 1 Push Test Comparison
Stall Torque (in.-lbs.)
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
Time (sec)
Mtr 1 (OV-104 Flt 27, 6/18/05))
Mtr 1 (OV-104 Flt 28, 11/17/06)
Mtr 1 (OV-104 Flt 29, 7/24/07)


TU102 Motor 2 Push Test Comparison
Stall Torque (in.-lbs.)
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
Time (sec)
Mtr 2 (OV-104 Flt 27, 6/18/05)
Mtr 2 (OV-104 Flt 28, 11/17/06)
Mtr 2 (OV-104 Flt 29, 7/24/07)


TU102 Dual Motor Push Test Comparison
Stall Torque (in.-lbs.)
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
7
Time (sec)
Dual Mtr (OV-104 Flt 27, 6/18/05)
Dual Mtr (OV-104 Flt 28, 11/17/06)
Dual Mtr (OV-104 Flt 29, 7/24/07)


OV-103 LH ET Door Push Testing, Motor 1
(Actuator TU113)
Stall Torque
Time
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
0
1
2
3
4
5
6
7
LH Mtr 1 (Flt 32, 12/14/05)
LH Mtr 1 (Flt 33, 8/22/06)
LH Mtr 1 (Flt 34, 6/29/07)


OV-103 LH ET Door Push Testing, Motor 2
(Actuator TU113)
Stall Torque
Time
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
1
2
3
4
5
6
7
LH Mtr 2 (Flt 32, 12/14/05)
LH Mtr 2 (Flt 33, 8/22/06)
LH Mtr 2 (Flt 34, 6/29/07)


OV-103 LH ET Door Push Testing, Dual Motor
(Actuator TU113)
Stall Torque
Time
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
1
2
3
4
5
6
7
LH Dual Mtr (flt 32, 12/14/05)
LH Dual Mtr (Flt 33, 8/22/06)
LH Dual Mtr (Flt 34, 6/29/07)