

# 24V/5HR 390AH Forklift battery

## VCF 6A 24V (Mfg no:TV2017K)

### 8 Years old



Pre additive test #1						
ONLINE V/SPGR		0 hours V/SPGR		2h5m		
Nov, 14th 2005		Nov, 14th 2005		Voltage		
CELL #	Readings	CELL #	Readings	CELL #	Readings	
	24.60 V		23.53 V		21.0V	
	Voltage SPGR		Voltage SPGR		End Voltage	
1	2.04 1.21	1	1.95 1.15	1	1.76	
2	2.05 1.22	2	1.96 1.16	2	1.72	
3	2.05 1.22	3	1.95 1.15	3	1.69	
4	2.05 1.22	4	1.96 1.15	4	1.79	
5	2.05 1.21	5	1.96 1.15	5	1.71	
6	2.05 1.21	6	1.96 1.15	6	1.75	
7	2.05 1.21	7	1.96 1.15	7	1.76	
8	2.05 1.22	8	1.96 1.15	8	1.76	
9	2.05 1.21	9	1.96 1.15	9	1.77	
10	2.03 1.19	10	1.94 1.13	10	1.69	
11	2.04 1.21	11	1.96 1.15	11	1.77	
12	2.04 1.20	12	1.95 1.14	12	1.77	

Post additive test #1						
ONLINE V/SPGR		0 hours V/SPGR		4h0m		
Nov 21st, 2005		Nov 21st, 2005		Voltage		
CELL #	Readings	CELL #	Readings	CELL #	Readings	
	25.47 V		23.60 V		21.0V	
	Voltage SPGR		Voltage SPGR		End Voltage	
1	2.12 1.30	1	1.96 1.16	1	1.77	
2	2.13 1.29	2	1.97 1.17	2	1.72	
3	2.12 1.29	3	1.96 1.16	3	1.68	
4	2.12 1.29	4	1.97 1.17	4	1.79	
5	2.12 1.29	5	1.96 1.16	5	1.68	
6	2.12 1.29	6	1.97 1.16	6	1.76	
7	2.12 1.29	7	1.97 1.16	7	1.77	
8	2.12 1.29	8	1.97 1.17	8	1.76	
9	2.12 1.28	9	1.96 1.16	9	1.77	
10	2.09 1.27	10	1.95 1.15	10	1.70	
11	2.12 1.28	11	1.96 1.16	11	1.77	
12	2.11 1.28	12	1.96 1.15	12	1.77	

Post additive tests #2						
ONLINE V/SPGR		0 hours V/SPGR		4.1h		
Oct 8th, 2006		Oct 8th, 2006		Voltage		
CELL #	Readings	CELL #	Readings	CELL #	Readings	
	25.48 V		23.71 V		21.00V	
	Voltage SPGR		Voltage SPGR		End Voltage	
1	2.11 1.29	1	1.97 1.16	1	1.75	
2	2.12 1.29	2	1.98 1.16	2	1.75	
3	2.12 1.29	3	1.97 1.15	3	1.68	
4	2.11 1.28	4	1.97 1.15	4	1.77	
5	2.11 1.29	5	1.97 1.15	5	1.77	
6	2.12 1.29	6	1.98 1.15	6	1.76	
7	2.13 1.29	7	1.98 1.15	7	1.77	
8	2.13 1.29	8	1.98 1.15	8	1.77	
9	2.12 1.29	9	1.97 1.15	9	1.77	
10	2.11 1.28	10	1.95 1.13	10	1.68	
11	2.12 1.29	11	1.98 1.15	11	1.78	
12	2.11 1.28	12	1.96 1.14	12	1.76	

Discharge Capacity Time			
Am10:30	0h	68.7 A	23.35 V
	0.5h	66.5 A	22.65 V
	1.0h	65.6 A	22.24 V
	1.5h	64.8 A	21.77 V
Pm12:30	2.0h	62.7 A	21.19 V
Pm12:35	2h5m	62.2 A	21.00 V
		A	V
		A	V
		A	V
		A	V
		A	V

11/14/05  
41% Capacity

Discharge Capacity Time			
Am10:25	0h	71.2 A	23.80 V
	0.5h	70.2 A	23.70 V
	1.0h	69.9 A	23.50 V
	1.5h	69.4 A	23.26 V
	2.0h	68.4 A	23.00 V
	2.5h	67.5 A	22.65 V
	3.0h	66.1 A	22.22 V
	3.5h	64.6 A	21.73 V
Pm2:25	4.0h	62.8 A	21.00 V
		A	V
		A	V

11/21/05  
80% Capacity

Discharge Capacity Time			
Am10:25	0h	72.6 A	24.00 V
	0.5h	72.4 A	23.86 V
	1.0h	72.0 A	23.72 V
	1.5h	71.0 A	23.39 V
	2.0h	70.4 A	23.14 V
	2.5h	69.5 A	22.79 V
	3.0h	68.6 A	22.39 V
	3.5h	67.3 A	22.01 V
Pm14:25	4.0h	65.7 A	21.52 V
Pm14:37	4.1h	64.3 A	21.00 V
		A	V

10/08/06  
82% Capacity

Method: 39cc added to each cell. 39ccx12=468CC 1 battery. Battery was used daily and charged with regular charger.  
 Conclusion: After one week of daily usage battery capacity has increased from 41% to 80%. After one year of continuous use battery capacity has continued to hold at 82%. Forklift battery should last well into it first year or more before needing replacing.