Regeneration Report for Army 37 Division Military 6TN Battery (PTC 80)





Sample: For Hard Cold, Military 6TN Battery PTC 80 (12V - 80AH) 10 pcs.

Course: 1. Choose at random for junk batteries at the Army 37 Division on July 5, 2011.

- 2. Start Regeneration Process after marking numbers (37-1 ~ 37-10) on July 6, 2011.
- 3. Discharging Process to check its Reserve Capacity(RC) and 2nd Regeneration until July 13, 2011.
- 4. Naturally Discharged for 5 days until July 18, 2011.

Results: 37-1: Namil Battery 6TN: Measuring Impossible ---> 95% Restored (RC 177min, after 1st regeneration)

37-2: Solite 6TN: Measuring Impossible ---> 92.5% Restored (RC 174min, after 1st regeneration)

37-3: Atlas BX 6TN: Measuring Impossible ---> 100% Restored (RC 193min, after 1st regeneration)

37-4: Solite 6TN: About 50% ---> 100% Restored (RC 191min, after 1st regeneration)

37-5: Solite 6TN: Measuring Impossible ---> 100% Restored (RC 172min, after 1st regeneration)

37-6: Atlas BX 6TN: Measuring Impossible ---> Damaged (Internal Cell Shot)

37-7: Namil Battery 6TN: Measuring Impossible ---> Damaged (Bad Gravity)

37-8: Solite 6TN: Measuring Impossible ---> 100% Restored (RC 188min, after 1st regeneration)

37-9: Solite 6TN: Measuring Impossible ---> Damaged (#1 Cell - Bad Gravity)

37-10: Namil Battery 6TN: Measuring Impossible ---> Damaged (Bad Gravity)

Remark: - 6TN Batteries are specially made to use at the severe cold weather.

So, 12V 80AH marked batteries showed as a similar capacity of over 100Ah.

- It was almost impossible to measure them by references of some general batteries(12V, 80AH, 630CCA
- All these batteries are measured by a basis of 12V, 100AH, 800CCA as a stardard of new battery
- Attached all details at next pages ···

Inspected and Tested by: Sergeant Jong Sun Kim of Transportation Company in 37 Army Division in Korea

TEL: 043-835-6428 / 010-6422-9717

No	37-1	Model	lamil Battery 6TN (PTC80	Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y. S. Ryu

Date							
	Cell	٧	Gravity	CCA	I.R.	R.C.	Remark
	1						
	2	Can not .					1.11.1.1.1.1
6-Jul-11	3	measured (Over		Can not	Can not		Initial Measurement Before
	4	Discharged		measured	measured		Regeneration
	5)					
	6						
	1		1,235				
	2		1,225	657	4,53		
7-Jul-11	3	12,62	1,240	657 (Based on			1st
/ Jul 11	4	12.02	1,230	CCA 800)			Regeneration
	5		1,240				
	6		1,230				
	1		1,070				
	2	11.86	1.080	304 (Based on CCA 800)			After
8-Jul-11	3		1.090		9.78	177 min.	Discharging
8-Jul-11	4	11,60	1.080		9.76	(2:57)	Process
	5		1,110	CCA 600)			Process
	6		1,085				
	1	12.76	1,260	770			
	2		1,255				
13-Jul-11	3		1,260		3,84		2nd
13-741-11	4	12.76	1,260	(Based on CCA 800)			Regeneration
	5		1,255	CCA 800)			
	6		1,255				
	1						After 2nd
	2						regeneration,
18-Jul-11	3	12.53		761	3.91		naturally
19-101-11	4	12,55		(Based on CCA 800)	3,91		discharged for
	5			CCA 000)			5 days
	6						
	1						
	2						
19-Jul-11 —	3	12.60		778	2 02		Charging for
וויוווניפו	4	12.68		(Based on CCA 800)			3 hours
	5			CCA 000)			
	6						

No		37-2	Model	Solite 6TN	I (PTC80)	Restored by	Repowertek Inc.
Voltage		12	Ah	8		Checked by	Y, S, Ryu
voitage		12	All		Internal Resistance		1, 3, Kyu
Date	Cell	٧	Gravity	CCA	I.R.	R.C.	Remark
Date		V	Gravity	CCA	ı,ĸ,	ĸ,c,	Remark
	1						
	2	Can not measured					Initial Measuremen
6-Jul-11	3	(Over		Can not	Can not		Before
	4	Discharged		measured	measured		Regeneration
	5)					
	6						
	1		1,240				
	2		1,240	618		4 .	
7-Jul-11	3	12,63	1,230	(Based on	4 81	4.81	1st
	4		1,240	CCA 800)			Regeneration
	5		1,240				
	6		1,240				
	1		1,110				
	2		1,110	355			After
8-Jul-11	3	11,99	1,090	(Based on	8.38	174 min.	Discharging
	4		1,125	CCA 800)		(2:54)	Process
	5		1,105				
	6		1,105				
	1		1,260				
	2		1,260	740			
13-Jul-11	3	12,73	1,255	740 (Based on	4,02		2nd
	4	12.75	1,260	CCA 800)	4,02		Regeneration
	5		1,260				
	6		1,260				
	1						After 2nd
	2			740			regeneration,
18-Jul-11	3	12,69		(Based on	4,02		naturally
	4	12,03		CCA 800)	-		discharged for
	5						5 days
	6						-
	1						
	2		903			_	
10-10-11	3			802	2.7		Charging for
19-Jul-11	,	1722		(Based on	3.7		
19-Jul-11	4	12.83		(Based on CCA 800)	3.7		3 hours

No	37-3	Model	ATLAS BX 6TN (PTC80)	Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y. S. Ryu

					Internal Resistance	Reserve Capacity	
Date	Cell	٧	Gravity	CCA	I.R.	R.C.	Remark
	1						
	2	Can not measured (Over Discharged)					
6-Jul-11	3			Can not	Can not		Initial Measurement Before
O Jul 11	4			measured	measured		Regeneration
	5						
	6						
	1		1,290		2.83		
	2		1,300	4040			
7-Jul-11	3	13,00	1,290	1048			1st
7 741 11	4	13,00	1,290	(Based on CCA 800)			Regeneration
	5		1,290				
	6		1,290				
	1		1,120				
	2		1,120			193	After
8-Jul-11	3	11.86	1,135	668	4,45	min.	Discharging
9-Jul-11	4		1,120	(Based on CCA 800)	4.43	(3:13)	Process
	5		1,120	CCA 000)		(3.13)	Process
	6		1,120				
	1		1,310				
	2	13.01	1,330	1033	2.88		
13-Jul-11	3		1,320				2nd
13 741 11	4	13,01	1,320	(Based on CCA 800)	2,00		Regeneration
	5		1,320	CCA 800)			
	6		1,315				
	1						After 2nd
	2			4040			regeneration,
18-Jul-11	3	12,93		1040 (Based on	2,85		naturally
10 741 11	4	12,33		CCA 800)	2,03		discharged for
	5						5 days
	6						
	1						
	2]					
	3]					
	4						
	5						
	6						

No		37-4	Model	Solite 6TN	N (PTC80)	Restored by	Repowertek Inc.
Voltage		12	Ah	8	0	Checked by	Y, S, Ryu
					Internal Resistance	Reserve Capacity	
Date	Cell	٧	Gravity	CCA	I.R.	R.C.	Remark
	1		1,150				
	2		1,160				
6-Jul-11	3	12,11	1,160	374	7,98		Initial Measureme Before
O Jul 11	4	12,11	1,160	3/4	7.50		Regeneration
	5		1,150				,
	6		1,160				
	1		1,295				
	2		1,295	055			
8-Jul-11	3	12,92	1,295	855 (Based on	3,12		1st
6 Jul 11	4	12,32	1,290	(Based on CCA 800)	3,12		Regeneration
	5		1,290				
	6		1,290				
	1		1,170				
	2		1,170	F70		191	After
11-Jul-11	3	12,17	1,160	573	5,19	min.	Discharging Process
11 741 11	4	12,17	1,170	(Based on CCA 800)	3,13	(3:11)	
	5		1,160			(3.11)	1100033
	6		1,160				
	1		1,315				
	2		1,310	007			_
13-Jul-11	3	13,05	1,310	887 (Based on	3,34		2nd
	4	15.05	1,305	CCA 800)	3,54		Regeneration
	5		1,310				
	6		1,310				
	1						After 2nd
	2			889			regeneration
18-Jul-11	3	12,96		(Based on	3,34		naturally
	4			CCA 800)	3,3 1		discharged for
	5						5 days
	6						
	1						
	2						
	3						
	4						
	5						

No	37-5	Model	Solite 6TN (PTC80)	Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y, S, Ryu

					Internal Resistance	Reserve Capacity	
Date	Cell	٧	Gravity	CCA	I.R.	R.C.	Remark
	1						
	2	Can not					
6-Jul-11	3	measured		Can not	Can not measured		Initial Measurement Before
0-Jul-11	4	(Over Discharged		measured			Regeneration
	5)					Regeneration
	6						
	1		1,280		3,12		
	2		1,290	054			
8-Jul-11	3	12,87	1,280	951			1st
9-Jul-11	4	12,07	1,280	(Based on CCA 800)			Regeneration
	5		1,280				
	6		1,280				
	1		1,150				
	2		1,160				After
11-Jul-11	3	12,22	1,160	668	4,53	172 min.	Discharging
11-Jul-11	4	12,22	1,160	(Based on CCA 800)	4,55	(2:52)	Process
	5		1,160	CCA 000)			Process
	6		1,165				
	1		1,310				
	2	13,03	1,310	921	3,22		
13-Jul-11	3		1,300				2nd
13 301 11	4		1,310	(Based on CCA 800)			Regeneration
	5		1,305	CCA 000)			
	6		1,305				
	1						After 2nd
	2			006			regeneration,
18-Jul-11	3	12,84		906	3,28		naturally
10 Jul 11	4	12,04		(Based on CCA 800)	3,20		discharged for
	5			26,1000)			5 days
	6						
	1						
	2						
	3						
	4						
	5						
	6						

No		37-6	Model	ATLAS BX 6	TN (PTC80)	Restored by	Repowertek Inc.
Voltage		12	Ah	8	:0	Checked by	Y. S. Ryu
					Internal Resistance	Reserve Capacity	
Date	Cell	٧	Gravity	CCA	I.R.	R.C.	Remark
6-Jul-11	1 2 3 4 5 6	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
8-Jul-11	1 2 3 4 5 6	Int		ell Shot To be wa			o restore,
	1 2 3 4 5 6						
	1 2 3 4 5						
	1 2 3 4 5						

No	37-7	Model	Namil Battery 6TN (PTC80	Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y, S, Ryu

Voltage		12	Ah	8	30	Checked by	Y. S. Ryu			
-					Internal Resistance	Reserve Capacity				
Date	Cell	٧	Gravity	CCA	I.R.	R,C,	Remark			
	1				Can not					
	2	Can not								
6-Jul-11	3	measured (Over		Can not measured			Initial Measurement Before			
O Jul 11	4	Discharged			measured		Regeneration			
	5)					_			
	6									
	1		1,260							
	2		1,290	202						
7-Jul-11	3	12,70	1,240	302 (Based on	9,71		1st			
7 341 11	4	12,70	1,260	CCA 800)			Regeneration			
	5		1,270	,						
	6		1,280							
	1		1,240							
	2		1,270	242			_			
13-Jul-11	3	12.64	1,225	312 (Based on	9.54	26분	2nd			
	4		1,240	CCA 800)	3.3 .	201	Regeneration			
	5		1,260							
	6		1,260							
	1									
	2	Internal Cell - Bad Gravity -> Impossible to restore,								
13-Jul-11	3									
	4	To be wasted disposal!								
	5									
	6			T	T		T.			
	1									
	2									
	3									
	4									
	5									
	6									
	1									
	2									
	3									
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No		37-8	Model	Solite 6TI	N (PTC80)	Restored by	Repowertek Inc.
Voltage		12	Ah	8	0	Checked by	Y. S. Ryu
					Internal Resistance	Reserve Capacity	
Date	Cell	٧	Gravity	CCA	I,R,	R,C,	Remark
6-Jul-11	1 2 3 4 5 6	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
8-Jul-11	1 2 3 4 5	12.85	1,270 1,265 1,260 1,265 1,260 1,265	745 (Based on CCA 800)	3.99		1st Regeneration
12-Jul-11	1 2 3 4 5 6	11.98	1.090 1.110 1.110 1.110 1.100 1.110	550 (Based on CCA 800)	5.41	188분 (3:08)	After Discharging Process
13-Jul-11	1 2 3 4 5 6	12,81	1,270 1,270 1,265 1,270 1,265 1,270	895 (Based on CCA 800)	3,31		2nd Regeneration
18-Jul-11	1 2 3 4 5	12,77		938 (Based on CCA 800)	3,16		After 2nd regeneration, naturally discharged for 5 days
19-Jul-11	1 2 3 4 5 6	12,88		946 (Based on CCA 800)	3,13		Charging for 3 hours

No	37-9	37-9 Model Solite 6TN (PTC80)		Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y. S. Ryu

Voltage		12	Ah	8	30	Checked by	Y, S, Ryu			
	1	_			Internal Resistance	Reserve Capacity				
Date	Cell	٧	Gravity	CCA	I,R,	R.C.	Remark			
6-Jul-11	1 2	Can not								
	3	measured (Over Discharged		Can not measured	Can not measured		Initial Measurement Before Regeneration			
	4									
	5									
	6	,								
	1		1,120							
	2	12,54	1,270	71 (Based on CCA 800)	38,01					
0.1.44	3		1,260				1st Regeneration			
8-Jul-11	4		1,270							
	5		1,280							
	6		1,275							
	1									
	2	Internal Cell #1 - Low Gravity - > Impossible to restore,								
12-Jul-11	3									
12 341 11	4	To be wasted disposal!								
	5									
	6									
	1									
	2									
	3									
	4									
	5									
	6									
	1									
	3									
	4									
	5									
	6									
	1									
	2									
	3									
	4									
	5	1								
	6									

No	37-10		Model	lamil Battery 6TN (PTC80		Restored by	Repowertek Inc.	
Voltage	12		Ah	80		Checked by	Y, S, Ryu	
					Internal Resistance	Reserve Capacity		
Date	Cell	٧	Gravity	CCA	I.R.	R.C.	Remark	
6-Jul-11	1 2	2 3 4 5.98		8	299.2		Initial Measurement	
	4						Before Regeneration	
	5 6							
	1		1,200					
	2		1,240		9,25		1st Regeneration	
	3		1,220	322				
8-Jul-11	4	12.98	1,200	(Based on				
	5	-	1,220	CCA 800)				
	6		1,230					
	1	12.66	1,250	320 (Based on CCA 800)	9.28	79 min. (1:19)	2nd Regeneration	
	2		1,260					
13-Jul-11	3		1,250					
13-141-11	4		1,220					
	5		1,250					
	6		1,250					
	1							
	2	Internal Cell Bod Country Name with the						
13-Jul-11	3	Internal Cell - Bad Gravity -> Impossible to restore,						
	4	To be wasted disposal!						
	5							
	6					ı	I	
	1			-				
	2							
	3			-				
	4 5			-				
	6			-				
	1							
	2			1				
	3			1				
	4			1				
	5							
	6							