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 …

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Regeneration Report for Military Battery in Korea

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

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
7-Jul-11	1	12.62	1,235	657 (Based on CCA 800)	4.53		1st Regeneration
	2		1,225				
	3		1,240				
	4		1,230				
	5		1,240				
	6		1,230				
8-Jul-11	1	11.86	1,070	304 (Based on CCA 800)	9.78	177 min. (2:57)	After Discharging Process
	2		1,080				
	3		1,090				
	4		1,080				
	5		1,110				
	6		1,085				
13-Jul-11	1	12.76	1,260	770 (Based on CCA 800)	3.84		2nd Regeneration
	2		1,255				
	3		1,260				
	4		1,260				
	5		1,255				
	6		1,255				
18-Jul-11	1	12.53		761 (Based on CCA 800)	3.91		After 2nd regeneration, naturally discharged for 5 days
	2						
	3						
	4						
	5						
	6						
19-Jul-11	1	12.68		778 (Based on CCA 800)	3.82		Charging for 3 hours
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

No	37-2	Model	Solite 6TN (PTC80)	Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y. S. Ryu

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
7-Jul-11	1	12.63	1,240	618 (Based on CCA 800)	4.81		1st Regeneration
	2		1,240				
	3		1,230				
	4		1,240				
	5		1,240				
	6		1,240				
8-Jul-11	1	11.99	1,110	355 (Based on CCA 800)	8.38	174 min. (2:54)	After Discharging Process
	2		1,110				
	3		1,090				
	4		1,125				
	5		1,105				
	6		1,105				
13-Jul-11	1	12.73	1,260	740 (Based on CCA 800)	4.02		2nd Regeneration
	2		1,260				
	3		1,255				
	4		1,260				
	5		1,260				
	6		1,260				
18-Jul-11	1	12.69		740 (Based on CCA 800)	4.02		After 2nd regeneration, naturally discharged for 5 days
	2						
	3						
	4						
	5						
	6						
19-Jul-11	1	12.83		802 (Based on CCA 800)	3.7		Charging for 3 hours
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

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

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
7-Jul-11	1	13.00	1,290	1048 (Based on CCA 800)	2.83		1st Regeneration
	2		1,300				
	3		1,290				
	4		1,290				
	5		1,290				
	6		1,290				
8-Jul-11	1	11.86	1,120	668 (Based on CCA 800)	4.45	193 min. (3:13)	After Discharging Process
	2		1,120				
	3		1,135				
	4		1,120				
	5		1,120				
	6		1,120				
13-Jul-11	1	13.01	1,310	1033 (Based on CCA 800)	2.88		2nd Regeneration
	2		1,330				
	3		1,320				
	4		1,320				
	5		1,320				
	6		1,315				
18-Jul-11	1	12.93		1040 (Based on CCA 800)	2.85		After 2nd regeneration, naturally discharged for 5 days
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

No	37-4	Model	Solite 6TN (PTC80)	Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y. S. Ryu

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	12.11	1,150	374	7.98		Initial Measurement Before Regeneration
	2		1,160				
	3		1,160				
	4		1,160				
	5		1,150				
	6		1,160				
8-Jul-11	1	12.92	1,295	855 (Based on CCA 800)	3.12		1st Regeneration
	2		1,295				
	3		1,295				
	4		1,290				
	5		1,290				
	6		1,290				
11-Jul-11	1	12.17	1,170	573 (Based on CCA 800)	5.19	191 min. (3:11)	After Discharging Process
	2		1,170				
	3		1,160				
	4		1,170				
	5		1,160				
	6		1,160				
13-Jul-11	1	13.05	1,315	887 (Based on CCA 800)	3.34		2nd Regeneration
	2		1,310				
	3		1,310				
	4		1,305				
	5		1,310				
	6		1,310				
18-Jul-11	1	12.96		889 (Based on CCA 800)	3.34		After 2nd regeneration, naturally discharged for 5 days
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

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

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
8-Jul-11	1	12.87	1,280	951 (Based on CCA 800)	3.12		1st Regeneration
	2		1,290				
	3		1,280				
	4		1,280				
	5		1,280				
	6		1,280				
11-Jul-11	1	12.22	1,150	668 (Based on CCA 800)	4.53	172 min. (2:52)	After Discharging Process
	2		1,160				
	3		1,160				
	4		1,160				
	5		1,160				
	6		1,165				
13-Jul-11	1	13.03	1,310	921 (Based on CCA 800)	3.22		2nd Regeneration
	2		1,310				
	3		1,300				
	4		1,310				
	5		1,305				
	6		1,305				
18-Jul-11	1	12.84		906 (Based on CCA 800)	3.28		After 2nd regeneration, naturally discharged for 5 days
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

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

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
8-Jul-11	1	Internal Cell Shot -> Impossible to restore, To be wasted disposal !					
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

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

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
7-Jul-11	1	12.70	1,260	302 (Based on CCA 800)	9.71		1st Regeneration
	2		1,290				
	3		1,240				
	4		1,260				
	5		1,270				
	6		1,280				
13-Jul-11	1	12.64	1,240	312 (Based on CCA 800)	9.54	26분	2nd Regeneration
	2		1,270				
	3		1,225				
	4		1,240				
	5		1,260				
	6		1,260				
13-Jul-11	1	Internal Cell - Bad Gravity -> Impossible to restore, To be wasted disposal !					
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

No	37-8	Model	Solite 6TN (PTC80)	Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y. S. Ryu

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
8-Jul-11	1	12.85	1,270	745 (Based on CCA 800)	3.99		1st Regeneration
	2		1,265				
	3		1,260				
	4		1,265				
	5		1,260				
	6		1,265				
12-Jul-11	1	11.98	1,090	550 (Based on CCA 800)	5.41	188분 (3:08)	After Discharging Process
	2		1,110				
	3		1,110				
	4		1,110				
	5		1,100				
	6		1,110				
13-Jul-11	1	12.81	1,270	895 (Based on CCA 800)	3.31		2nd Regeneration
	2		1,270				
	3		1,265				
	4		1,270				
	5		1,265				
	6		1,270				
18-Jul-11	1	12.77		938 (Based on CCA 800)	3.16		After 2nd regeneration, naturally discharged for 5 days
	2						
	3						
	4						
	5						
	6						
19-Jul-11	1	12.88		946 (Based on CCA 800)	3.13		Charging for 3 hours
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

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

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	Can not measured (Over Discharged)		Can not measured	Can not measured		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
8-Jul-11	1	12.54	1,120	71 (Based on CCA 800)	38.01		1st Regeneration
	2		1,270				
	3		1,260				
	4		1,270				
	5		1,280				
	6		1,275				
12-Jul-11	1	Internal Cell #1 - Low Gravity -> Impossible to restore, To be wasted disposal !					-
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						

Regeneration Report for Military Battery in Korea

No	37-10	Model	Namil Battery 6TN (PTC80	Restored by	Repowertek Inc.
Voltage	12	Ah	80	Checked by	Y. S. Ryu

Date	Cell	V	Gravity	CCA	I.R. (Internal Resistance)	R.C. (Reserve Capacity)	Remark
6-Jul-11	1	5.98		8	299.2		Initial Measurement Before Regeneration
	2						
	3						
	4						
	5						
	6						
8-Jul-11	1	12.98	1,200	322 (Based on CCA 800)	9.25		1st Regeneration
	2		1,240				
	3		1,220				
	4		1,200				
	5		1,220				
	6		1,230				
13-Jul-11	1	12.66	1,250	320 (Based on CCA 800)	9.28	79 min. (1:19)	2nd Regeneration
	2		1,260				
	3		1,250				
	4		1,220				
	5		1,250				
	6		1,250				
13-Jul-11	1	Internal Cell - Bad Gravity -> Impossible to restore, To be wasted disposal !					
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						
	1						
	2						
	3						
	4						
	5						
	6						