BayesianBESS — Battery Health Report

Vehicle: **VChart1081** | Pack-Level Report | Generated: 12 Mar 2026 05:22

Pack Summary

Metric	Value
Total Cells	16
Cells: OK	13
Cells: OBSERVE	3
Cells: CRITICAL	0
Pack SOH (BMS)	95.2%
Avg Cell SOH (spread-derived)	93.7%
Cycle Count	449
Calendar Age	500 days
Lowest Cell RUL	462 cycles (Cell 7)
Pack Status	**OBSERVE**

Cell-by-Cell Overview

Cell	Cell SOH	Spread (mV)	RUL (cycles)	Status
Cell 1	94.90%	59.0	1310	OK
Cell 2	90.58%	106.3	487	OBSERVE
Cell 3	95.06%	57.3	1384	OK
Cell 4	93.85%	70.5	1019	OK
Cell 5	93.85%	70.5	1024	OK
Cell 6	95.15%	56.3	1436	OK
Cell 7	90.24%	110.0	462	OBSERVE
Cell 8	94.94%	58.6	1355	OK
Cell 9	90.39%	108.3	477	OBSERVE
Cell 10	95.15%	56.3	1436	OK
Cell 11	95.24%	55.3	1474	OK
Cell 12	93.81%	70.9	1015	OK
Cell 13	92.89%	81.0	818	OK

Cell 14	94.85%	59.6	1323	OK
Cell 15	94.96%	58.3	1367	OK
Cell 16	94.12%	67.5	1097	OK

Pack BMS SOH: 95.2% | Cell SOH derived from temporal voltage spread (p90–p10, active rows).

Voltage Profile

Cell voltage min/max/spread for all cells (active rows, p10/p90). LFP safe ceiling = 3.65 V. High spread → wider OCV arc traversed → lower cell SOH.

Cell	V Avg	V Min (p10)	V Max (p90)	Spread (mV)	Cell SOH
Cell 1	3.3174	3.2680	3.3270	59.0	94.90%
Cell 2	3.3706	3.2710	3.3773	106.3 ■	90.58%
Cell 3	3.3140	3.2660	3.3233	57.3	95.06%
Cell 4	3.3231	3.2680	3.3385	70.5	93.85%
Cell 5	3.3235	3.2680	3.3385	70.5	93.85%
Cell 6	3.3160	3.2680	3.3243	56.3	95.15%
Cell 7	3.3931	3.2690	3.3790	110.0 ■	90.24%
Cell 8	3.3189	3.2700	3.3286	58.6	94.94%
Cell 9	3.3725	3.2690	3.3773	108.3 ■	90.39%
Cell 10	3.3141	3.2667	3.3230	56.3	95.15%
Cell 11	3.3164	3.2700	3.3253	55.3	95.24%
Cell 12	3.3243	3.2690	3.3399	70.9	93.81%
Cell 13	3.3291	3.2690	3.3500	81.0 ■	92.89%
Cell 14	3.3172	3.2677	3.3273	59.6	94.85%
Cell 15	3.3142	3.2667	3.3250	58.3	94.96%
Cell 16	3.3221	3.2690	3.3365	67.5	94.12%

Pack-Level Findings

- **OBSERVE:** Cell 2: RUL 487 cycles — monitor closely (threshold 600 cycles)
- **OBSERVE:** Cell 7: RUL 462 cycles — monitor closely (threshold 600 cycles)
- **OBSERVE:** Cell 9: RUL 477 cycles — monitor closely (threshold 600 cycles)

Pack Recommendation

OBSERVE: 3 cell(s) show elevated readings. Schedule pack inspection at next maintenance window. Monitor OBSERVE cells daily.