

# Predictive Maintenance Diagnostic Report

**CURRENT STATUS:** Estimated Remaining Useful Life is 1077.0 cycles.

## 1. Input Data Snapshot

Parameter	Value
Cycle Index	32.0
Discharge Time (s)	2235.8
Decrement 3.6-3.4V (s)	873.5940000001574
Max. Voltage Dischar. (V)	4.043
Min. Voltage Charg. (V)	3.368
Time at 4.15V (s)	5132.342999999877
Time constant current (s)	6105.38
Charging time (s)	9120.64

## 2. Model Explanation and Key Factor

SHAP Report: SHAP analysis driven by \*max. voltage dischar. (v)\*.

LIME Report: LIME highlights charging time (s) as relevant.

**Most Influential Feature:** max. voltage dischar. (v)

## 3. Actionable Maintenance Suggestions

- Review historical data trends to detect subtle degradation.