



# Why is Lithium Better for my Car?

## The REAL Test Criteria for Acceptable Battery Quality and Performance

*“A Battery Shall Be Tested by Drawing One-Half Its Cold Cranking AMP Rating for 15 Seconds. The Resulting Voltage Sag Shall Not Fall Below 9.8 Volts.”*

*Example: An 800 CCA-Rated Battery Is Subjected to a 400-AMP Load, and at 400A, the Observed Voltage Shall Be 9.8 Volts MINIMUM.*

- Tested In-Vehicle: Evaluate Voltage “Sag” Harmful to Vehicle Electronics During Actual Vehicle Starting (Cranking Operations)
- Vehicle: 2009 Maserati Quattroporte, Approx. 2,300 Miles on Odometer
- Ambient Temperature at Test Conditions: 70 Degrees F

Battery	Voltage: Vehicle OFF	Voltage: Full Load/OFF**	Voltage at Start
Stock Battery*	12.6	11.4	7.8 (FAIL)
AGM	12.9	12.3	9.6 (FAIL)
Lithionics Battery	13.3	12.7	<u>10.8 (PASS)</u>

\*Fiamm Flooded Lead-Acid

Conditions Prior to Start: door open, stereo on, lights on, wipers-on

### **Conclusion by the Automobile Association of America (AAA):**

***The average life of a battery used to be about 37 months. Now, according to experts, they fizzle at 24 months.***