



CHAMPION AEROSPACE LLC

To: Timothy W. Monville, NTSB

Aug 18th, 2016

From: Joe Logie, Technical Support Manager – Slick Products

Tim, The hot resistance testing was completed Aug 16th, 2016 in our Liberty, SC production facility. The coil was pulled from frame of the 4201 mag s/n 1011091 (as s/n was smudged by crash damage this is a best guess) to determine date of manufacture and determined that it was 1981 vintage, made the same year as the mag.

Per our maintenance manual L-1037 rev H, resistance should fall between .5 - 1.2 ohms primary and 13 - 20.5K ohms secondary.

Test Results:

cold resistance primary (.7 ohms) hot (1.8 ohms)

cold resistance secondary (13.71K ohms) hot (19.68K ohms)

Since we never published a "hot" value I decided to bake a new production (M3975 Aug 10, 2016) part the same 200 degrees F for two hours and here are the results.

cold resistance primary (.5 ohms) hot (1.5 ohms)

cold resistance secondary (15.15K ohms) hot (18.9K ohms)

Based on these findings this coil met new production requirements for resistance and I have no doubt that the coil was functioning correctly in this magneto.



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