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The following is a synopsis of the information provided by [REDACTED] in an e-mail correspondence.

Examination of N9158L, Bellanca, 7ACA revealed that the spark plug wire end on the No. 3 cylinder was bad. The center conductor fell apart when the connector end was removed. The dielectric was worn and old and the center conductor was loose inside of the wire allowing it to vibrate with some of the wire strand actually touching the shield and spring at times. The ends for the remaining 7 leads were a newer version in much better conduction.



Figure 1: View of number 3 cylinder frayed ignition lead (photo provided by the FAA)



Figure 2: View of number 3 cylinder ignition lead conductor separation (photo provided by the FAA)