



# AVIATION TECHNICAL BULLETIN

Champion Spark Plug Company

P. O. BOX 910, TOLEDO, OHIO 43601

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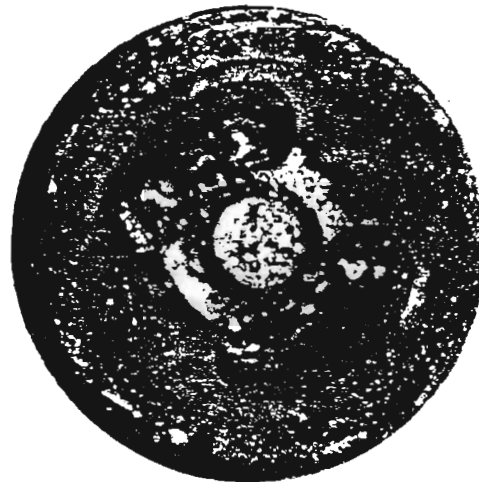
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## AV-GAS, TETRAETHYL LEAD (TEL), & SPARK PLUGS

An evaluation of gasoline with higher Tetraethyl Lead (TEL) content was recently performed in aircraft engines designed for 80/87 octane fuels.

The spark plugs used in this 500-hour evaluation did show signs of lead deposits, especially in the lower plugs. None of the plugs malfunctioned; but as a precaution to prevent the lead from building up to an excessive amount, the following procedure should be followed.

At regular oil change periods, remove and check for lead deposits in a few lower plugs. If deposits of lead beads or globules are found, simply swap the bottom plug with the top plug. On normal run-up, combustion turbulence should remove these deposits with no ill effects to the spark plug or engine.



*Typical Example of Spark Plug with Lead Accumulation*

If it becomes necessary for you to use higher leaded fuels in aircraft originally designed to operate with 80/87 octane fuel, it would be well for you to check with the engine manufacturer to assure yourself that all component parts of those engines are compatible with higher lead fuels.

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