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SERVICE LETTER

Service Letter No. L291

September 23, 2025

TO: All Owners and Operators of TIO-540-AK1A Engine Model

SUBJECT: Substitution of Turbocharger

NOTICE: Incomplete review of all the information in this document can cause errors. Read the entire Service Letter to make sure you have a complete understanding of the requirements.

The purpose of this Service Letter is to communicate to the field the temporary use of turbocharger P/N 46C31588, with a stainless-steel turbine housing in place of turbocharger P/N 46C22924. A limited number of New, Rebuilt, or Overhauled TIO-540-AK1A engines were delivered from the Lycoming factory between October 10, 2023 and July 31, 2024 using Turbocharger P/N 46C31588, Model TAO411 (Hartzell P/N 466642-0008) as an alternate to the standard P/N 46C22924, Model TAO411 (Hartzell P/N 466642-0006).

Fit and function of turbocharger P/N 46C31588 is the same as turbocharger P/N 46C22924 and the same Instructions for Continued Airworthiness (ICA) apply. Operation of engines using turbocharger P/N 46C31588 is unchanged and will be performed in accordance with the existing applicable engine manuals and/or Pilots Operating Handbook (POH) or Airplane Flight Manual (AFM). The only difference is in weight, turbocharger P/N 46C31588 weighs 20.54 lbs. (9.32 kg) while turbocharger P/N 46C22924 weighs 18.00 lbs. (8.16 kg).

If you have any questions, contact Lycoming Technical Support by phone at 570-327-7222 or 877-839-7878 or by email to Technicalsupport@lycoming.com.



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