

FAA Technical Specifications – PR CT-26-00534-A2

The Federal aviation Administration (FAA) requires Avco Corp, doing business as, Lycoming Engines piston aviation engines and specially modified cylinders for use at the FAA's William J Hughes Technical Center for Advanced Aerospace (WJHTCAA), Propulsion and Airpower (POWER) Engineering Research Laboratory located in Atlantic City New Jersey. The vendor must furnish equipment necessary to provide the types, quantities with configuration of engines and cylinder kits indicated below:

EQUIPMENT	PART NUMBER	QTY	CONFIGURATION NOTES	DELIVERY DESTINATION
Lycoming TIO-540-AE2A Engine for PIPER PA-46-350P	ENPL-10844 or RENPL-10844. Whichever can be delivered faster	2	Pre-measured and configured for endurance / durability testing (SAE J-1899 / 14 CFR Part 33.49)	WJHTCAA
Lycoming TIO-540-AE2A Engine for PIPER PA-46-350P	ENPL-10844, RENPL-10844, or HENPL-10844. Whichever can be delivered faster	1	Configured with drilled cylinder ports to support FAA Kistler pressure transducers for detonation testing	WJHTCAA
Replacement cylinder kits for TIO-540-AE2A	OEM created for custom part	6	Configured with drilled ports to support FAA Kistler pressure transducers for detonation testing	WJHTCAA
Replacement cylinder kits for TSIO-540-J2B	OEM created for custom part	6	Configured with drilled ports to support FAA Kistler pressure transducers for detonation testing	WJHTCAA

Vendor must provide zero-time Lycoming above specified Engines without any prior engine wear (hysteresis). Engines must be traceable back to the Original Equipment Manufacturer (OEM), Lycoming, type design holder production process and OEM quality control (QC) process. Engines must not be handled by third parties or assembled with parts that are not in the QC system of the OEMs (Parts Manufacturer approval).

At a minimum, Vendor must provide the following:

- a. FAA form 8130-3- "Authorized Release Certification, Airworthiness Approval Tag", or manufacturer's certification of compliance.
- b. To ensure compliance with paragraph 3, engines must include documentation from the OEM tracing their production back to the OEM production process.
- c. The Vendor will be responsible for all equipment shipped to:

FAA William J Hughes Technical Center for Advanced Aerospace
Bldg. 211
Atlantic City International Airport
Atlantic City, NJ 08405