

Preserving a Legacy: TPE331 Power, Performance and Reliability

For the last 50 years, thousands of TPE331 turboprop engines have provided power, performance, and reliability in flight operations around the world. The TPE331 engine powers more than 80 types of executive, regional, utility, agricultural and military aircraft. Throughout the years, engine performance and reliability have been continually enhanced to meet the ever increasing demands placed on this unique engine. To date, Honeywell has manufactured more than 14,000 of these capable power plants.

Operators' Challenge: Operating Costs vs. Aircraft Value

The TPE331 has been an outstanding engine for decades, but as engines advance through their life cycle, maintenance, repair and overhaul costs continue to increase. Today, owners, operators and fleet managers face the challenge of maintaining their engines in the face of escalating maintenance costs relative to overall aircraft value.

The StandardAero Solution: A Legacy of Value

Experience

StandardAero's legacy as the original engine manufacturer's field maintenance support division provides us with the opportunity to offer our customers over 40 years of factory level TPE331 experience. Today, we still maintain a close relationship with the engine manufacturer and continue to collaborate with their technical specialists who've supported this engine over those many decades.

Quality Standards

As a worldwide leader in aviation maintenance services and a Honeywell authorized Heavy Maintenance Service Center, StandardAero has an obligation to maintain TPE331 engines to the highest standards of safety and reliability.



We will never risk your safety, sacrifice engine reliability, or lower our quality standards just to give an impression of low cost. We control engine maintenance costs by using our experience in the aviation maintenance business to provide our customers with the most cost effective material sourcing solutions for their maintenance needs. You can rest assured that the parts we use to repair your engine meet the engine manufacturer's airworthiness and reliability standards. StandardAero will never install questionable parts in your engine. This philosophy not only protects you and your passengers, but also enhances the overall reliability of your engine, and value of your aircraft.

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Engine Testing

Following all engine maintenance activities, StandardAero tests engines using a Honeywell certified dynamometer. Why? Like the engine manufacturer, StandardAero understands that testing the engine in a stable environment, unaffected by outside weather conditions allows us to:

- Obtain engine operational data with an accuracy not possible using any other test method
- More accurately determine engine performance by measuring mass airflow to calculate exact internal engine temperatures
- Precisely measure torque output signals to calibrate engine torque indicating system
- Measure dynamic NTS system operation, both during start and during engine operation to ensure reliable operation in flight
- Accurately determine vibration levels of all internal rotating components

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Unscheduled Maintenance Cost Assistance Program

StandardAero offers our Unscheduled Maintenance Cost Assistance Program for newly overhauled TPE331 engines. This program provides two major benefits to operators. First is our unprecedented four-year financial protection against unanticipated maintenance costs. If you experience an engine problem after your overhaul warranty period expires, we will repair your engine at a significantly reduced cost, minimizing the financial impacting on your cost of operation. The second benefit is the added value of our free oil analysis program in which we provide you with no-cost replacement SOAP kits until you reach hour first scheduled turbine inspection. This program is fully transferrable if you sell your aircraft, providing even more value.



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Technical Support

StandardAero has been maintaining the TPE331 engine for over 40 years. We began servicing this engine as the field support arm of the engine manufacturer. Today, as a Honeywell authorized Heavy Maintenance Service Center, we continue to offer our expertise to operators around the world. We can provide you with assistance and support for any engine maintenance need.

Conclusion

StandardAero has been providing aviation maintenance, repair, and overhaul services for over 75 years. Today, we're a global company providing a broad range of services to business aviation, airlines, fleets, government, and military organizations around the world. We have facilities not only in the United States, but also in Canada, Europe, Asia, and Australia as well.

Our experience is second to none, our quality standards are what other service providers are measured by, our engine testing methods ensure operational excellence, our Cost Assistance Program protects the value of your aircraft, and our technical support is available to solve any problem. It's our commitment to service and support for the TPE331 engine that provides the real value for our customers.

