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ENGINE OVERHAUL PROCESS

Every employee at The New Firewall Forward knows when a customer awards the business of overhauling an aircraft engine; this agreement represents the highest level of trust. We honor that trust following procedures to insure only the highest quality engines leave our facility.

Initial Inspection

Upon arrival at our facility, an initial inspection is conducted to identify any major unforeseen issues. If The New Firewall Forward is removing the engine, aircraft items related to engine operations are inspected and concerns are discussed with the aircraft owner.

Disassembly

Parts are tagged and placed on carts specific to that engine. Items are documented in written form and with photographs. Components are sent to the respective departments for inspection and reworking.

Component Inspection

Components slated for reuse are measured to verify the item is within tolerances and critical items are tested to ensure the item is not critically damaged.

Assembly

Engines are reassembled to exacting standards and new components are purchased from top tier suppliers. The New Firewall Forward uses a “One Person – One Engine” assembly process, unlike the first time the engine was assembled by the factory.

Testing

Finally, to ensure the engine will perform better than new and will meet our high expectation of producing an engine that is less expensive to operate and more reliable than factory new, we test run the engines on a Dynamometer, this helps to ensure correct piston ring seating and to measure and record engine torque and horsepower output. These engines receive an average 2 hour test run to achieve proper cylinder compression, which allows time to obtain complete operational information on engine performance prior to return to service.