

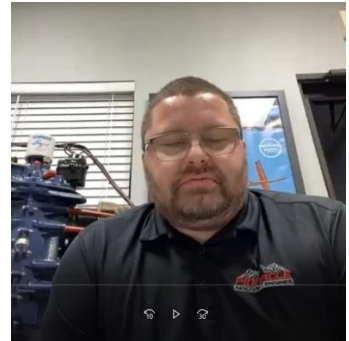
Feb 24, 2022 ComancheZOOM

Topic: **Inspection Repair As Necessary vs Overhaul**
with JD Kuti of Pinnacle Aircraft Engines

This Zoom is the third in a series of four on engines, and was eligible for FAA WINGS credit.

JD Kuti discusses the difference between overhauls and IRANs (Inspect, Repair As Necessary). He explains what takes place during an overhaul compared with what takes place during an IRAN. Questions such as, "Can an IRAN delay or postpone an overhaul?" and "How does the engine log entry differ between an IRAN and an overhaul?" are addressed.

JD has 15 years of experience in piston aircraft engines. He is the owner of Pinnacle Aircraft Engines, a 145 Repair Station, and loves to share stories of the various findings discovered during engine inspection.



Various types of engine repairs discussed

IRAN Top OH	Major OH Zero time OH	Factory OH Factory Reman	New engine Blueprinted OH
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Each type has its value. The most common, often recommended for insurance claims, is the IRAN. This involves a complete inspection of the engine and repairing or replacing any damage components. Required parts (some bearings, seals, etc) are also replaced. This work is logged as a repair and the engine hours to TBO are not affected. JD recommends this approach for lower time engines, but says that it might not be cost effective for a high time engine.

A Top Overhaul involves just the cylinders and may not need the engine to be removed from the aircraft. These repairs are often done by the local A&P. Again, no affect on the TBO time.

The rest of the repair types are actual overhauls, involving more expense, and should be performed by a reputable engine shop. These do affect the engine TBO time, some even qualifying as "like new".

JD cautions against major work being done by a "shade tree mechanic". Reputable repair facilities have experienced workers, know the procedures outlined by engine manufacturers, and have access or inventory for quality parts.

To hear/see the recording click on a link below.

- <http://meetings.northeastcomanche.org/zoom/2022-02-24/video.mp4>
- <http://meetings.northeastcomanche.org/zoom/2022-02-24/audio.m4a>

For the Chat text click on this link

- <http://meetings.northeastcomanche.org/zoom/2022-02-24/chat.txt>

For JD's PowerPoint presentation click here

- meetings.northeastcomanche.org/zoom/2022-02-24/EngineOverhaul_vsIRAN.pptx

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