

Mitchell Rasmussen
Air Safety Investigator
AS - ANC

Date:

February 22, 2024

Subject:

ANC24LA011 Engine Exam

Contact:

Mike Marzke, Mechanic, Black Mountain Aviation, LLC.
Spencer Leonard, Aviation Safety Inspector, FAA

On February 16, 2024, an engine examination was performed on the O320-D2J installed in N53725, a Cessna 172P. Mechanic, Mike Marzke, and FAA Inspector, Spencer Leonard, performed the examination.

- They verified fuel was present in the strainer and the carburetor bowl.
- The fuel from the carburetor bowl and strainer contained “an insignificant” amount of water.
- They used a lighted borescope to look through the induction air inlet and through the engine air inlet to verify that all linkages to the carburetor and the air box were attached and functioning properly, and that all butterfly valves operated normally.
- All the spark plugs were removed. They found a large amount of oil on lower spark plug of the No. 2 cylinder; however, the aircraft was upside down, nose low for a couple of days prior to recovery. The plug electrodes appeared normal, and spark was verified on all ignition leads.
- Compression was verified on all cylinders.
- The decision was made to run the engine. They top charged the battery. Fuel was added through the right wing tank inlet. The airplane was started normally with no issues or unusual noises. The run confirmed all plugs worked with no noted misfires or sputters. The throttle was advanced to 1,700 and engine continued to run normal, no issues noted.