

**NATIONAL TRANSPORTATIONS SAFETY BOARD
Office of Aviation Safety
Washington, DC 20594**

SUMMARY OF ENGINE/AIRFRAME EXAMINATION

-- CEN21LA408 --

A. ACCIDENT

Aircraft: N50055, Cessna 150

B. PARTICIPANTS

Craig Hatch
Aerospace Engineer
National Transportation Safety Board
Denver, Colorado

C. DETAILS OF ENGINE EXAMINATION

A post-recovery engine examination was conducted at Air Salvage of Dallas, Lancaster, Texas, on Nov 10, 2021. The engine had been removed from the fuselage, and placed on a table, prior to the examination. During the removal of the engine, it was noted that pieces of the valve train (valve) was found in the exhaust pipe.

D. SUMMARY OF ENGINE EXAMINATION

Engine – Continental O-200A, 100 hp

- A visual inspection of the engine did not discover any preimpact anomalies
 - Other than the components found during engine removal
- The number two cylinder was removed from the engine
- The top and bottom sparkplugs, from #2 cylinder were damaged
- The top of piston was heavily damaged with holes in piston top
- The oil filter was removed and cut open; small pieces of metal was observed in the filter element.
- The rocker “face” on both the number 2 and 4 were worn
- The valve keepers on the #2 were heavily damaged



Engine on table/stand ready for examination



Engine, with cylinder separated: note damage to the piston.

----- *end of summary* -----