



NATIONAL TRANSPORTATION SAFETY BOARD
Office of Aviation Safety

SUMMARY OF ENGINE EXAMINATION
ANC19LA016

Accident Information:

Place : Bethel, Alaska
Date : April 11, 2019
Aircraft : Piper PA-32-300, N4466T

Engine Information:

Make : Lycoming
Model : IO-540-K1A5
Serial # : L-19834-48A

Summary:

During a post-accident examination, it was discovered the engine was seized and unable to rotate. All accessories and spark plugs were removed for the engine teardown but were noted as installed correctly before removal. After separation of the case halves, the crankshaft was noted to have failed on the #3 main bearing journal. The failure showed signs of thermal damage and twisting. The engine valves were all set correctly and properly installed. The oil pan had large amounts of copper and metal flake. The oil pan screen was removed, and heavily fragmented metal shavings were found. The propeller counterweights installed were correct, and the correct rollers were also installed.