



Jason Aguilera
Senior Air Safety Investigator
Aviation Safety - Central Region

Date: November 29, 2023

Subject: CEN22LA251

Contact: James McDaniel, Owner/Builder/Pilot N36YR

Following the loss of engine power accident involving N36YR, the engine, a General Motors LS1 engine converted for use in the airplane was examined.

Disassembly of the engine found that pistons No. 1 through No. 5 were all seized at the connecting rod/crankshaft bearings. No other anomalies were found during the disassembly.

The seized bearing all showed signatures of lack of oil lubrication and cooling.

Reviewed data stored in the electronic flight instrument system did not provide any indication of RPM overspeed and the oil pressure readings were within standards for the engine.

The owner/builder stated that the engine was purchased as a "firewall forward" package. He thought the engine could benefit from additional cooling using a secondary oil cooler or external remote filter.

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