



MEMORANDUM FOR RECORD

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Air Safety Investigator
Eastern Region

Date: 6/23/2025

Subject: email from P&W engineering on inspection hard times and components
NTSB Case Number: ERA23LA272

During a phone conversation and follow-up email, P&W engineering was asked the following questions as it pertains to inspection requirements, hard times on components and any other reports of worn splines. Answers as follows:

1. Have you seen this before? If so, what has been done about it?

[This has not been seen in our experience for the Woodward FCU's and Eaton \(Argo-Tech\) fuel pumps.](#)

[The historical data analysis, going back 6 years for the fuel pump and 10 years for the FCU, showed no previous events of spline failures on these part numbers.](#)

2. Has the FAA put out anything on this?

[Not to our knowledge.](#)

3. Is worn splines normal?

[No](#)

4. Did anyone review the logbooks and determine anything like lack of inspection or maintenance?

[Pictures of some of the logbook pages were provided post examination](#)

[The review of the logbooks did not yield any findings that may have contributed to the FCU or Fuel Pump drive assembly wear.](#)

5. Is there any hard time on these components?

[No, we did not receive any hard times for these components.](#)

6. Any other background would help my report?

[The report should have all the engine investigation background.](#)

[Let us know if you require further information.](#)