

From: [REDACTED]
To: [Brian Young](#)
Subject: RE: NTSB Party Submission - Ocean Navigator DCA24FM004
Date: Wednesday, February 19, 2025 3:21:36 PM

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Brain,

Below are the observations from the factory. They did not do much in the way of advanced testing/measuring because the bearing were in such bad shape there is little question about failure mode.

Comments from Caterpillar Chief Engineer/rotating components:

Front main bearing has heavy local wear. Was there any front driven equipment? Damper mounted stubshaft or similar?

Main bearings 5 & 7 have debris damage.

Main bearings 4 & 5 have upper cavitation erosion that is not typical. This suggests oil quality or other lube issues.

Rod bearings show heavy cavitation indicating oil quality, oil level, oil-related issues should be investigated.

Overall, evidence of debris damage, including large particle debris, and poor oil film are widespread.

Best Regards,

[REDACTED]
Global Technical Services & Product Health Manager
Caterpillar Marine

[REDACTED]