

Continued Airworthiness Notification to the International Community

To: Civil Aviation Authorities

Date: January 4, 2021

From: Federal Aviation Administration (FAA)
Airworthiness Products Section, Operational Safety Branch
1200 District Avenue
Burlington, MA 01803

Subject: This message is to advise you of the FAA's ongoing activities related to the International Aero Engine AG (IAE) V2533-A5 uncontained engine failure that occurred on March 18, 2020.

Accident/Incident Description: A Vietnam Airlines Airbus A321-231, registration VN-392, Flight VN-920, powered by IAE V2533-A5 turbofan engines, experienced an uncontained high-pressure turbine (HPT) 1st-stage disk failure while attempting to takeoff. The flight crew aborted the takeoff and passengers departed the aircraft using the mobile stairs. No injuries were reported and the aircraft was later towed back to the terminal.

Aircraft/engine make, model, and series: IAE V2500-A1, V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, V2531-E5, and V2533-A5 model turbofan engines.

U.S. registered fleet: 4 engines

Worldwide fleet: 28 engines

Operators: British Airways PLC, China Eastern Airlines, Indigo Airlines, Jetstar Airways, Jetstar Asia, Jetstar Japan, Lufthansa German Airlines, Network Aviation, Shenzhen Airlines, TAM - Linhas Aereas S/A, Tata-SIA Airlines Limited (Vistara), Turkish Airlines Inc., United Airlines, US Airways, Wizz Air, and any operator confirmed to be in possession of a subject disk with two serial number disks not yet located.

Ongoing activities: As an interim measure, on March 21, 2020, the FAA issued Emergency AD 2020-07-51, which requires the removal from service of certain HPT 1st-stage disks installed on IAE V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, and V2533-A5 model turbofan engines. Since the FAA issued AD 2020-07-51, the manufacturer conducted a root cause analysis and identified a different population of HPT 1st-stage and HPT 2nd-stage disks that are affected by the unsafe condition and require removal from service. The FAA is now issuing an immediately adopted rule AD to require removal of HPT 1st-stage and 2nd-stage disks from IAE V2500-A1, V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, V2531-E5, and V2533-A5 model turbofan engines. The affected HPT 1st-stage and 2nd-stage disks are identified by serial number in the AD.

Next update, if any: As needed.

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