

Continued Airworthiness Notification to the International Community

To: Civil Aviation Authorities

Date: April 11, 2022

From: Federal Aviation Administration
Aircraft Certification Service
Compliance & Airworthiness Division

Subject: This message is to advise you of the Federal Aviation Administration's (FAA) ongoing activities related to oil leakage on certain Pratt & Whitney Division (P&W) PW4074, PW4074D, PW4077, PW4077D, PW4084D, PW4090, and PW4090-3 model turbofan engines installed on Boeing Model 777-200 and 777-300 series airplanes.

Accident/ Incident Description: On November 9, 2021, a Boeing Model 777 airplane, registration N773UA, powered by P&W PW4077 engines, experienced an oil leak on the number 1 engine on a ferry flight from San Francisco, California to Honolulu, Hawaii that resulted in an in-flight shutdown (IFSD) and air turnback. A post-flight inspection revealed an oil leak from the air/oil heat exchanger. After the event, on December 19, 2021, an operator discovered another oil leak related to the air/oil heat exchanger during a post-flight inspection after the first flight out of storage. After further investigation, the manufacturer determined that the air/oil heat exchanger leak was due to corrosion, exacerbated by certain 777-200/300 airplanes being in storage since February 20, 2021.

In response to these occurrences, the manufacturer published service information specifying procedures to perform an inspection of the air/oil heat exchanger and, depending on the results of the inspection, replacement of the air/oil heat exchanger. This service information also specifies procedures for storing an air/oil heat exchanger after performing the inspection.

Aircraft / Engine Make, Model and Series: P&W PW4074, PW4074D, PW4077, PW4077D, PW4084D, PW4090, and PW4090-3 model turbofan engines.

U.S.-registered fleet: 108 engines

Worldwide fleet: 250 engines

Operators: All Nippon Airways, Asiana, Eastern Air Lines, Egypt Air, Japan Airlines, Jin Air, Korean Air, Ukraine International Airways, and United Airlines.

Ongoing activities: The FAA is issuing an airworthiness directive (AD) to address the unsafe condition. The AD will require operators to inspect, and possibly replace, the air/oil heat exchanger.

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Note: This information is for the use of civil aviation authorities only and should not be released to the public at this time.

CAN-2022-05