

**Aviation Safety Investigation Report
199400234**

**Boeing Co
B737-400**

01 February 1994

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Investigations commenced on or before 30 June 2003, including the publication of reports as a result of those investigations, are authorised by the Executive Director of the Bureau in accordance with Part 2A of the Air Navigation Act 1920.

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NOTE: All air safety occurrences reported to the ATSB are categorised and recorded. For a detailed explanation on Category definitions please refer to the ATSB website at www.atsb.gov.au.

The Bureau did not conduct an on scene investigation of this occurrence. The information presented below was obtained from information supplied to the Bureau.

Occurrence Number: 199400234 **Occurrence Type:** Incident
Location: Melbourne
State: VIC **Inv Category:** 4
Date: Tuesday 01 February 1994
Time: 0632 hours **Time Zone** ESuT
Highest Injury Level: None

Aircraft Manufacturer: Boeing Co
Aircraft Model: 737-476
Aircraft Registration: VH-TJF **Serial Number:** 24431
Type of Operation: Air Transport Domestic High Capacity Passenger
Damage to Aircraft: Nil
Departure Point: Melbourne VIC
Departure Time: 0630 ESuT
Destination: Sydney NSW

Approved for Release: Sunday, June 19, 1994

During the first takeoff for the day some smoke appeared in the aft cabin. The smoke dissipated leaving a strong burning odour. The aircraft returned to Melbourne where a normal landing was carried out.

Investigation disclosed that the right engine had been internally washed during the overnight service. Ardrex 6345, an aqueous based cleaning fluid, had been utilised. This was the first time that this product had been used in this application. It was found that the approved rinsing procedure had not taken into account the foaming effect of the Ardrex 6345 and some residual fluid had remained in the hot bleed air section of the engine. This had been evaporated and burned during the takeoff.

The operator has revised the rinsing procedure to preclude a repetition of this event.