1. Download and watch the video (access link below). Complete the synopsis of the event with the words given.

https://drive.google.com/file/d/1zhcxuiHaZsNYZTVeobD1FjOTVCA8w8pp/view?usp=sharing

In-flight uncontained engine failure Airbus A380-842, VH-OQA, overhead Batam Island, Indonesia, 4 November 2010

## QF32 - Synopsis of the event and its aftermath

## What happened

damage / sustained / multitude / engine rotor failure / climbing / impacted / Trent 900 / structural / returned to / managed / required actions / departing from

C		
On 4 November 2010, while 1)	through 7,000 ft after 2)	Changi Airport, Singapore,
the Airbus A380 registered VH-OQA, 3)	an uncontained 4)	(UERF) of the No. 2
engine, a Rolls-Royce 5)	. Debris from the UERF 6)	the aircraft, resulting in
significant 7) the s	and systems	8)
The flight crew 9) the s	situation and, after completing the	10) for the 11)
of system failures, safely 12	) and landed at Chan	igi Airport.
	What the ATSB found	
internal / conform to / contain / High Pre	essure / ultimately / oil feed stub pipe	es / non-conforming / drive shaft /
wall sections / IP / reduced / manufactur	ed / sufficient / accelerated / fitted / s	separation / including / a fatigue
	crack	
The Australian Transport Safety Bureau (A	ATSB) found that a number of 1)	within the 2)
/ Intermediate pressure (I	HP/3) ) hub assembly were	(4) with thin 5)
that did not 6)	the design specifications. These	7) pipes were 8)
to Trent 900 engines, 9)		
significantly 10) the life of		
developed, 12) releasing of		
led to the 14) of the inter-		
and burst with 17)	force that the engine structu	ure could not 18) it,
releasing high-energy debris.		
	What has been done to fix it	
quality management / a range of steps / tur / shut / ident	rbine overspeed protection / non-con tified / non-conforming / software up	
Following the UERF, the ATSB, Rolls-Royer Trent 900 engines took 2) to were 3) and either removed for Royce also released an engine control 4) _ (IPTOS) that is designed to 6) unlikely event that a similar failure occurs.	o ensure that HP/IP hub assemblies with from service, or managed to ensure the that included an I	h non-conforming oil feed stub pipes neir safe continued operation. Rolls- P 5) system
Rolls-Royce has also made a range of chang manage 9) parts, both do had unknowingly been released into service v	uring the manufacturing process and v	
	Safety message	
certification / turbine engines / an opp		signs / failura / anhanca / rara /
certification / turbific engines / an opp	potential	signs / fanute / emiance / fare /
Even though modern civil 1)		
events, the resulting damage from such a		
catastrophic. This accident represents 6)	for the regulatory auth	norities to 7) any
lessons learned into their 8)		