SERIOUS INCIDENT

Aircraft Type and Registration:	Beechcraft 300 Super King Air, SE-KOL
No & Type of Engines:	2 Pratt & Whitney Canada PT6A-60A turboprop engines
Year of Manufacture:	1989 (Serial no: FA-189)
Date & Time (UTC):	13 November 2014 at 2030 hrs
Location:	Farnborough Airport, Hampshire
Type of Flight:	Commercial Air Transport
Persons on Board:	Crew - 2 Passengers - None
Injuries:	Crew - None Passengers - N/A
Nature of Damage:	Flap motor overheated
Commander's Licence:	Airline Transport Pilot's Licence
Commander's Age:	38 years
Commander's Flying Experience:	8,100 hours (of which 3,920 were on type) Last 90 days - 95 hours Last 28 days - 20 hours
Information Source:	Aircraft Accident Report Form submitted by the pilot

It was intended that the aircraft would perform a ferry flight to return to Sweden. During engine start, the crew detected an electrical smell in the cabin. The co-pilot left the cockpit to try to locate the source of the odour and returned shortly after, to report that there was smoke coming from below the floor aft of the main wing spar. The smoke had increased and was now starting to impair visibility so the commander declared an emergency and ordered an evacuation. The fire services attended promptly and, using infra-red equipment, detected a heat source below the floor where the smoke had been observed. A technician later identified the source as the electrical flap motor.

The flaps had overtravelled such that they were hard against their mechanical UP stop and it was evident that the motor had overheated until the circuit breaker eventually tripped. The motor, limit switch and flap control relay were all changed and the system re-rigged but the repairer does not know which of these may have been responsible for the overtravel condition.