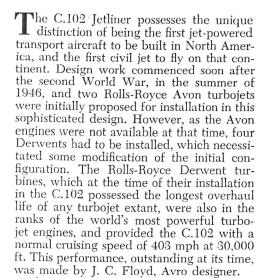
AVRO CANADA C.102 JETLINER



The C.102 was first flown on August 10, 1949, and carried a crew of two with seats for a maximum of 50 passengers. Basically a conventional airliner with straight wings and tail surfaces, the C.102 was nevertheless extremely advanced for its time, particularly as far as its powerplants were concerned. The four Derwent 5 turbojets were slung under the wings, in pairs, close to the center line of the aerodynamically clean fuselage with a stepped cabin windshield. The close proximity of the thrust lines and the fuselage center line would eliminate powerful asymmetric forces in case of a failure of one of the turbojets. The total fuel capacity of 2352 Imp. gals. (this was to be increased to 4000 Imp. gals. on production models) provided the Jetliner with capability to operate over

stage-lengths of the order of 1100 miles. All fuel was carried in four integral tanks in the outer wing sections. The maximum climb rate at sea level was 2220 feet per minute.

Being the world's second jet commercial airliner (the British Comet had flown for the first time only 14 days before the Jetliner took off for its maiden flight), the C.102 was expected to be produced in limited quantities if political and military commitments, resulting from the Korean War, had not precluded further development. Although Avro Aircraft Ltd. has studied the possibilities of reviving the development of this early jet airliner and building an advanced version with increased fuel capacity, more powerful engines and improved performance, this machine's commercial potential has been definitely lost as a result of the time lag which rendered it obsolete.

However, be that as it may, the Jetliner has provided considerable service in the form of adding to the store of civil jet operational know-how, a knowledge as invaluable to the progress of aviation as is aerodynamics itself. In particular, the C.102's service as a high-altitude observation platform was of consequence in the development of several versions of the CF-100 all-weather fighter. Having completed a series of trials for research purposes, the Jetliner prototype was scrapped, so that there is no aircraft of this type flying today.

TECHNICAL DATA — Maximum speed: Cruising 458 mph. Range: Normal 1250 miles. Ceiling: App. 40,000 ft. Weight: Loaded 65,000 lbs. Engines: Four 3600-lb. thrust Rolls-Royce Derwent turbojets. Armament: None. Wingspan: 98 ft. 1 in. Length: 82 ft. 9 in.





all-weather-intercepest flight on January ignation J 32B. It is fighter with a modiand a larger afterturbojet.

the main mission, the vide range of underon to the standard n armament. Sixteen uided rockets and cluded in the list of

quadron service with early in 1956, propowerful supporting ions. The SAAB-32's give it the necessary needed in the list of r weapon can carry firepower will prothis nation with new all-around defense. of tactical groundhe land armies beimportant with the new weapon, the service indeed to its re military collision liately ahead. Tech-· A 32.

- Maximum speed: App. 2000 miles. ft. Weight: App. ine: 7500-lb. thrust terburning) Svenska et. Armament: Four ion plus underwing in. Length: 48 ft.

Jets and Missiles