

C o p y

CANADIAN PACIFIC AIR LINES LIMITED

Municipal Airport,
Edmonton, Alberta.

File: 127.

March 11, 1947.

T. W. Siers Esq.

Failure right engine No. 356370 - Douglas
CF-CUA.

Approximately twelve minutes after take-off Douglas CUA, Trip 22, March 6th, from Fort St. John, the oil temperature on the right engine increased rapidly and the oil pressure fell off to 50 lbs. The engine became noisy and slightly rough. It was throttled back and the aircraft returned to Fort St. John.

On examining the engine after landing, pieces of the skirt of a piston and several pieces of a piston ring were found in the oil sump; a quantity of metal particles, flakes and cuttings were found in the main oil screen.

On further examination after removing No. 5 rear cylinder, No. 5 piston skirt was found broken, also the lower piston ring. The flange on the master rod bearing was broken and the master rod bearing appeared to have failed as the master rod could be rocked on the crankshaft very easily. A replacement engine complete with a quick change mount and replacement oil radiator was forwarded to Fort St. John on March 7th for replacement. The oil tank was removed from the aircraft and forwarded to Edmonton for cleaning and inspection; and after thorough cleaning and flushing out was returned to Fort St. John for reinstallation in the aircraft.

The engine change was completed and the aircraft was test flown, found satisfactory and ferried to Edmonton on March 10th. The unserviceable engine is being returned to Edmonton and will be examined and inspected by Mr. E. Schweitzer, Canadian Pratt & Whitney, Service Representative, upon arrival, in order to determine the cause of failure if possible.