PRATT & WHITNEY AIRCRAFT CO. LIMITED

## INSPECTION REPORT SUMMARY

CUSTOMER: Canadian Pacific Air Lines

SUBJECT: R-2800-75-51

TIME SINCE LAST O/H: 440:37

TOTAL TIME: 2536:52 (known)

REASON FOR O/H OR REPAIR:

Front Cam Failure

## LIST OF MAJOR PARTS REQUIRED:

ITEM No.	DESCRIPTION	R
1-	Bearing, Propeller Thrust	Rac
2-	Gear, Fixed	Oute
3-	Pump, Front 011	Not
4-	Cam, Front	See
5-	Guides, Tappet (9)	Dam
1- 2- 3- 4- 5- 6-	Rollers, Tappet (18)	Chi
7-	Case, Rear	Cor
		bos
8-	Assy. Main Oil Screen	Not
9-	Assys. Rear Scavenge Pressure Pump	I.D
		and
10-	Pistons (8)	#2,
		cu
11-	Cylinders (4)	#10
		S/P

42-54623

SERIAL No.

PREVIOUS O/H BY: C.P. & A.L. Aug, 1955

DATE INSPECTED: March 27, 1956

LEASON FOR

REQUIREMENTS es pitted by corrosion er teeth deeply worn t received remarks naged pped and spalled on O.D.'E. rroded through at rear drain received ). of bodies excessively a gears nicked. ,4,6,8,13,14,16 & 18 as per ustomer's special require 0,12,16 & 18 cracked at 1 bushing.

## REMARKS

Examination of the front Cam revealed that the leading ramp to each exhaust was chipped and spalled. Spalling is usually caused by surface crack, inclusion, or similar surface injury causing a progressive breaking away of the surface under load Metal from these damaged lobes had circulated throughout the engine. The tapper ro were damaged from constant contact with the damaged lobes.

This condition would undoubtedly cause rough engine operation. The total on the failed cam is unknown.

Oil Sludge and carbon deposits were normal throughout the engine. Val pistons rings were free in their guides and grooves respectively.

All parts were inspected and replaced where necessary in accordance overhaul procedure.

K. J. Dawson, Assistant General Supe