



Inter-Departmental Memorandum

Ref 9730/09/J
Date January 14, 1959
To Mr. S. E. Harper
From T. Roberts
Subject UTILITY HYDRAULICS SYSTEM SURGE PRESSURES ARROW 1 & 2

R.F.T. 07-5103 that investigates maximum pressure surges and duty cycles on the Utility Hydraulics system, in order to determine specification limits on system equipment, is attached.

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Central Files



AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

REQUISITION FOR FLIGHT TEST

R.F.T. NO. 07-5103

SHEET NO. 1 OF 1

DATE: January 14, 1959

AIRCRAFT 25201

ASSIGNMENT X74-4419

WORK ORDER NO.

UTILITY HYDRAULICS SYSTEM SURGE PRESSURES1. OBJECT

To determine maximum pressure surges and duty cycles on the Utility Hydraulics system, to determine specification limits on system equipment.

2. INSTRUMENTATION

2.1 As serviceable at present date, on aircraft 25201.

2.1.1 Return Port pressure regulator 19-008.

2.1.2 Pump Inlet pressure 19-001.

NOTE:- Pressure max. 500 psi. Accuracy required $\pm 3\%$. Frequency expected between 30 - 100 cycles.

3. PROCEDURE

3.1 Measurements to be taken on C.M. Data Tape at the following conditions.

3.1.1 During taxi-out, with normal brake use.

3.1.2 During L/G retraction after take-off.

3.1.3 Just prior to landing, extend and retract L/G at max. placard speed and minimum speed.

3.1.4 Speed brake operation - at high and low aircraft speed.

3.1.5 During landing and taxi-in with normal brake operation.

NOTE:- Readings should be continuous for as long as possible prior to landing - at least 20 minutes.

4. DATA

4.1 C.M. Data Tape recordings.

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