

D.O.S

Mngr.....	Eng. Supt.....
Sec.....	A/F. Mngr.....
Asst. Sec.....	Ch. Eng. A/D.....
Ch. Acct.....	Pers. Supt.....
20 MAR 1962	
Stores.....	Supply Sales.....
Ansd.....	Init.....

FR
S/6.

AUSTRALIAN MISSION
S.B.E.C.M.A
70, bld Kellermann

PARIS 13e
France

COMMONWEALTH AIRCRAFT CORPORATION PTY.LTD.
BOX 779 H P.O.
Elizabeth st.

MELBOURNE
Australia

Attention : the MANAGER.

Subject : Spring testing machine.

CIRCULATION / COPIES / /	
E.F. MNGR ✓	FCT. ADM. SUPT.
DSGN. ENGR ✓	MC. SHOP. SUPT.
DEV. ENGR ✓	PRODUCN. SUPT.
SERV. ENGR	ASSM. Y. SUPT.
QUAL. ENGR	FOUNDRY. SUPT.
PRJD. ENGR	METCAL. SUPT.
MATL. ENGR	PROCESS SUPT.
CH. TL. DSGR	TOOL. PROD. SUPT.
CH. INSP. E. F.	TOOL. ROOM. SUPT.
A/F. MANAGER	SUPT. INSPECTOR

Dear Sir,

WJM

In reply to your M 179 on the above subject the following information is forwarded to you for assessment.

On checking with the SNECMA fuel systems Dept. at Villaroche in regard to the adequacy of a Probat Dual Range Spring Testing Machine of 0-10 kg. 0-50 kg. capacity as offered to C.A.C by Probat Werke, it was stated by them that such a machine would not suffice for the load testing of springs currently used in the ATAR fuel system.

During the discussion of your query with them it was necessary for them to have one of the fuel system springs checked at the fuel systems development section, due to the fact that their own 0-12 kg. 0-60 kg. machine did not have the capacity required (in this case 67 kg).

They also point out that in the ATAR 9C fuel system we are likely to encounter springs with a loading of around 80 kg. and that the range may even extend to around 120 kg.

These higher values (120 kg.) are for the springs which will be used in the mechanical pump for the Afterburner regulator on the 9K engine.

Further subsequent enquiries at Kellermann revealed that the two following springs, for example, could not be load tested on the earlier machine envisaged.

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.../...

NOTED
CNPS

✓

A 610.140.025.0.00 Soupape régulatrice - marche normale (sec)
charge maxi/59 kg. \pm 3 kg.

A 611.107.136.0 Ressort de soupape régulatrice P.C.
charge maxi/80 kg.

For your further information an examination of the spring load testing machines in use at both Villaroche and Kellermann (Spring manufacturing section) revealed a number of elaborate machines, among them being the three following less elaborate machines.

1) 0-500 g. Probat Werke machine which has been equipped with an optical sighting device to enable accurate readings to be made.

2) Testwell type FP 2. 0-100 kg.

Otto WOLPERT WERKE
Ludwigshafen s/Rhin.

3) Elasticometer D.R.P.
0-300 kg.

G. REICHERTER
Specialfabrik fur Metgerate
und Profmaschinen
Esslingen a.N.

It was stated by SNECMA that the Testwell type FP2 (0-100 kg) was not extremely accurate under the 5 kg. range but from there on throughout the remainder of the range was satisfactory.

They also stated that the Elasticometer (0-300 kg) was not an extremely accurate machine but was reasonably accurate at the higher values for which it was used.

Yours faithfully,



G.H. FOSTER