

## COMPUTED WEIGHT &amp; BALANCE REPORT

DATE 8/5/46CESSNA AIRCRAFT COMPANY  
WICHITA, KANSASMODEL 120

TYPE CERTIFICATE NO. 768

AIRCRAFT SPECIFICATION A-768-2  
PRODUCTION CERTIFICATE NO. 4 (Dated March 28, 1946)STANDARD AVERAGE WEIGHT 774.4  
ACTUAL EMPTY WEIGHT \_\_\_\_\_EMPTY C.G. 14.2  
EMPTY C.G. \_\_\_\_\_SERIAL NO. 9446  
NC NO. CF DXB

## CORRECTED WEIGHT &amp; HORIZONTAL BALANCE

ITEM	WEIGHT (LBS.)	ARM	MOMENT
AIRCRAFT WEIGHT	774.4	14.2	10996
LESS -			
CORRECTED TOTAL	774.4	14.2	10996
PLUS +			

NEW EMPTY WEIGHT 774.4 EMPTY C.G. 14.2 10996  
 MAXIMUM WEIGHT - 1450 LBS. EMPTY WEIGHT CG RANGE +12.2 TO +14.5  
 (FURTHER CHECK NOT REQUIRED)

C.G. RANGE - 13.5 TO 17.7 INCHES AFT OF DATUM (WING LEADING EDGE)  
 22% TO 29.2% M.A.C.

## MOST FORWARD C.G. LOCATION

ITEM	WEIGHT (LBS.)	ARM	MOMENT
EMPTY WEIGHT			
PILOT	170.0	19.5	3315
FUEL 7.08 GAL.	42.5	23.0	978
OIL 4.5 QTS.	8.5	-31.5	-268
TOTAL		MOST FWD. C.G.	

Fuel 6 lbs. Gal.  
 Oil 7.5 lbs. Gal.  
 Baggage 80.0 lbs Maximum

Balance =  $\frac{-5}{59.0}$  = % M.A.C.

## MOST REARWARD C.G. LOCATION

ITEM	WEIGHT (LBS.)	ARM	MOMENT
EMPTY WEIGHT			
PILOT & PASSENGER	340.0	19.5	6630
FUEL GAL.		23.0	
OIL 4.5 QTS.	8.5	-31.5	-268
BAGGAGE LBS.		37.5	
TOTAL		MOST RWD. C.G.	

Balance =  $\frac{-5}{59.0}$  = % M.A.C.

PREPARED BY M. U. Stivers

APPROVED BY

*Thomas J. Stivers*  
 DESIGNATED MANUFACTURING 5004  
 INSPECTION REPRESENTATIVE.