U. S. DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

4A20
TRANSLAND
Ag-2

October 10, 1958

TYPE CERTIFICATE DATA SHEET NO. 4A20

This data sheet which is a part of type certificate No. 4A20 prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Civil Air Regulations.

Type Certificate Holder	Transland Aircraft Company 2600 West 247th Street Torrance, California

I - Model Ag-2, 2 PCLM (Normal Category), Approved June 24, 1958

Engine	Pratt & Whitney Wasp S3H1 (R-1340-AN-1, R-1340-36, -47 or -49)	
Fuel	80/87 min. grade aviation gasoline	
Engine limits	Takeoff (one minute), 36.0 in.Hg., 2250 r.p.m. (600 hp.) All other operations, (Sea level) 34.0 in.Hg., 2200 r.p.m. (550 hp.) (5000 ft.) 32.5 in.Hg., 2200 r.p.m. (550 hp.)	
Propeller and propeller limits	1. Propeller - Hamilton Standard, constant speed, hub 12D40, blades 6101-12 Diameter: Maximum 9'1", min. allowable for repairs 8'10-5/8". No further reduction permitted Pitch settings at 42 in. sta.: Low 10°, high 26° Placard required: "Avoid continuous ground operation between 1280 and 1800 R.P.M. unless the aircraft is headed into the wind."	175 lb. (-57.5)
	2. Constant speed governor, Model 1M12A	4.5 lb. (-49)

Airspeed limits			
	Never exceed	Vne	165 m.p.h. (143 knots)
	Normal operating	Vno	131 m.p.h. (114 knots)
	Maneuvering	Va	129 m.p.h. (112 knots)
	Flap extended speed	Vfe	106 m.p.h. (92 knots)

C.G. range	(+24.5) to (+29.3) at 6000 lb. (+24.2) to (+31.0) at 4510 lb. (+24.0) to (+31.0) at 3000 lb. or less
Empty weight C.G. range	None
Datum	Leading edge of wing (fuselage station 81.00)
Leveling means	Fuselage upper longeron (cockpit rail)
Maximum weight	6000 lb. (takeoff and landing)
No. seats	2 (one at +87 and one at +119)
Maximum cargo	2000 lb. either as liquid load in tanks (+26) or dry load in fuselage hopper (+25.25)
Fuel capacity	Two wing tanks 63.0 gal. each (+26) Total usable fuel 126 gal. Unusable fuel 1 gal. each tank (+26)

Oil capacity	10 gal. (-7)

Control surface movements (Movements measured from neutral position of surface)

	Down	Up	Tolerance
Flap	20.0°	0.0°	±1°
Aileron	5.5°	6.5°	±1°
Slot lip	11.5°	24.0°	±3°
Elevator	19.0°	26.5°	±1°
Horizontal Stabilizer	4° 30'	6° 45'	±20'
Rudder	25° right	25° left	±1°

Serial Nos. eligible	1 and up
Certification basis	CAR 3, November 1, 1949, amendments 3-1 through 3-12. Type Certificate No. 4A20 issued June 24, 1958 Date of Application for Type Certificate March 23, 1955.
Production basis	None. Prior to original certification of each aircraft, a CAA representative must perform a detailed inspection for workmanship, materials, and conformity with approved technical data, and a check of the flight characteristics.
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.

NOTE 1. (a) Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter.

(b) The airplane must be loaded so that the C.G. is within the specified limits at all times taking into consideration the effect of fuel and cargo released overboard.

NOTE 2. The following placards or markings must be displayed in the locations noted:

(a) In front of and in clear view of the pilot:
(1) "This airplane must be operated as a normal category airplane in compliance with the operating limitations stated in the CAA Approved Flight Manual. All acrobatic maneuvers, including spins, are prohibited."
(2) "Avoid continuous ground operation between 1280 & 1800 R.P.M. unless the aircraft is headed into the wind."

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