

MODELS: Pratt & Whitney Wasp S1D1, S1D1-G, TD1

T.C. NUMBER: ATC 90

Model - Wasp	S1D1	S1D1-G
Type - 9RA	Direct drive	3:2 reduction gearing
Rating:		
Maximum continuous, hp, rpm, in.Hg., at:		
Rated pressure altitude (ft.)	550-2200-33-5000	--
S.L. pressure altitude	542-2200-33-S.L.	--
Take-off (one minute), hp, rpm, in.Hg.	550-2200-34	--
Fuel (minimum octane aviation gasoline)	80	--
Bore and stroke, in.	5.75 x 5.75	--
Displacement	1344	--
Compression ratio	6:1	--
Weight (dry) lbs.	730	815
Propeller shaft, SAE No.	30	40
Supercharging (impeller gear ratio)	10:1	--
Carburetion	Stromberg NAY-8F or NAY-8E carburetor with 2-1/2 in. venturi	--
Ignition, dual	Scintilla VAG-9D magnetos	--
Certification basis	Approved Type Certificate No. 90	

NOTE 1. Wasp TD1 or S1D1 engines, when installed only on Ford 5A1 series airplanes, are eligible with an approved rating limitation of 420 hp at 2000 rpm with 73 octane fuel and Stromberg NAY-7B carburetor provided a 1-9/16 inch venturi choke is used in the carburetor and the Pratt & Whitney warning plate is attached to the carburetor.

NOTE 2. Approval expired 7/16/36. No engines of these models manufactured after this date or with serial numbers above 6146 eligible for use in certificated aircraft.

NOTE 3. Engine serial number 5245 not eligible for use in certificated aircraft because it contains unapproved parts and because unsatisfactory practices were employed in its assembly.