

## ***Dodson Douglas DC-3C-TP***

***N146RD***

***S/N 32897***

***(Several Aircraft Available)***

**950 TT Since IRAN (Inspect and Repair As Necessary)**

**23,000 Hours since new**

**U.S. or South African Certification (Standard or Commercial)**

### ***ENGINES***

**PT6A-65AR**

**Automatic Power Reserve (APR) System (1425 SHP)**

**LE: 0 Hours Since Hot Section Inspection**

**914 Hours Since New**

**S/N: Various Engine Options Available**

**RE: 0 Hours Since Hot Section Inspection**

**1505 Hours Since New**

**S/N: Various Engine Options Available**

### ***PROPELLERS***

**Hartzell HC-B6 MP-3C 5-Blade**

**LP: 0 Hours Since Overhaul**

**RP: 0 Hours Since Overhaul**

### ***AVIONICS***

**Pilot Flight Director System**

**Century 41 Autopilot System**

**Bendix Color Weather Radar**

**Dual Garmin 430 Digital Communication Transceivers**

**Dual Garmin 430 Digital Navigation Receivers**

**Dual Garmin 430 GPS**

**Dual Becker Automatic Direction Finders**

**Dual RMI Radio Magnetic Indicators**

**Dual Slaved HSI Horizontal Situation Indicators**

**Dual IVSI Systems**

**Dual Turn Coordinators**

**Dual Audio Control Panels**

**Dual Marker Beacons**

**Dual Airspeed Warning Systems**

**Dual Stall Warning Systems**

**KT76A Transponder**

**Collins Radar Altimeter**

**DME Distance Measuring Equipment**

**Altitude Preselect System**

**Slaved Compass**

**Glideslope**

**Emergency VHF System**

**High Frequency Radio**

## ***INTERIOR***

**Seating for Three Crew Members, Various Seating and Configuration Options Available.  
Large, Stand-Up Cargo Cabin with Steel Cargo Floor.**

**The Refreshment Center Features a Coleman Cooler, Hot Box, Wash Basin, Two Storage Drawers, Ice Service, Waste Bin and Dispensers for Cold Water, Coffee, Sugar, Milk and Soup.**

**The Private Aft Lavatory has a Holding Tank Chemical Toilet. Other Amenities Include a Storage Cabinet Next to Potty Door, and a Belted Fold-Up Frame for a Four-Place Divan.**

## ***EXTERIOR***

**Overall White. Ready for Accent Striping, personalized to Customer's Color and Style Preference.**

### ***UPGRADED FEATURES & MODIFICATIONS***

**Long-Range Fuel System 1030 Gallons  
Digital Fuel Flow Instruments  
Shadin Fuel Flow Computer  
Electrical and Fuel Management Panel  
Aircraft Accessory Systems Panel  
Dual Electric Trim Systems  
New Cockpit Panels, Instruments, Overhead Panels and Gauges  
Century Yaw Damper  
New Kaydex Gill Liners  
Paratrooper Streamlined Door Modification  
Modified Door Jettison System  
Standard Double Cargo Door (70" High x 84" Wide)  
Cargo Area (420" Long x 78" Wide)  
Steel Cargo Floor  
Douglas Tie Down Tracks Across Ceiling, Sides and Floor  
Power Setup for Cargo Winch  
Hot Props  
Autofeather System  
Prop Sync System  
Prop Anti-Ice System  
Plumbed for Deice System  
Pilot's Clock  
Digital OAT System  
Static Inverters  
Dual 28 Volt Electrical Systems  
Auto Start/Abort System  
Engine Fire Detection & Extinguishing Equipment  
Emergency Hot Bus Modification  
Upgraded Heater System  
Throttle Quadrant Modification  
Slit Rivets (Replaced 2000)**

**Ground Power Switch Guard**  
**New Window Trim**  
**Paratrooper Jump Lights and Bells**  
**Front-To-Back Intercom System**  
**Central Lock System**  
**Crew Jumpseat with Audio Control Panel**  
**Fourth Audio Control Panel (Next to Cargo Doors)**  
**Three Large Cabinet-Style Storage Bins in Cockpit Area**  
**Cockpit Privacy Door**  
**Dual Map Cases**  
**Crew Sheepskin Covers**

### ***TECHNICAL INFORMATION***

DESCRIPTION	WEIGHT
<b>MAXIMUM ALLOWABLE TAKE-OFF WEIGHT</b>	<b>13 154 kg</b>
<b>BASIC EMPTY WEIGHT</b>	<b>6 962 kg</b>
<b>2 CREW @ 91 kg</b>	<b>182 kg</b>
<b>EMPTY OPERATING WEIGHT</b>	<b>7 144 kg</b>
<b>MAXIMUM LOAD</b>	<b>6 010 kg</b>
<b>MAXIMUM FUEL LOAD</b>	<b>3 224 kg</b>
<b>MAXIMUM USEABLE FUEL</b>	<b>3 190 kg</b>
<b>MAXIMUM LOAD WITH MAXIMUM FUEL</b>	<b>2 786 kg</b>
<b>VFR RESERVE – 45 min @ 371 kg/hr</b>	<b>272 kg</b>
<b>BURN-OFF</b>	<b>408 kg/hr</b>
<b>TAS</b>	<b>170 kts</b>
<b>AVAILABLE EN-ROUTE FUEL – FULL TANKS EXCL RES</b>	<b>2 918 kg</b>

<b>Range versus Load</b>			
<b>FUEL: KG</b>	<b>ENDURANCE: HRS</b>	<b>RANGE: KM</b>	<b>LOAD: KG</b>
2918	07 hr 08 min	2250	2792
2668	06 hr 33 min	2057	3042
2419	05 hr 56 min	1865	3292
2169	05 hr 19 min	1672	3542
1920	04 hr 42 min	1480	3792
1671	04 hr 05 min	1289	4042
1421	03 hr 28 min	1096	4292
1171	02 hr 52 min	903	4542
922	02 hr 15 min	711	4792
672	01 hr 40 min	518	5042
423	01 hr 02 min	325	5292

BURN-OFF MAY VARY SLIGHTLY WITH ALTITUDE AND CLIMB.  
DISTANCES CALCULATED FOR ZERO WIND CONDITIONS.

<b>GENERAL PARTICULARS</b>	
WINGSPAN	28.956 METERS
LENGTH	20.3454 METERS
HEIGHT	8.9916 METERS (LEVEL POSITION to TOP of FIN)
CARGO COMP. LENGTH	10.6985 METERS
CARGO COMP WIDTH. (FLOOR LEVEL)	2.1336 METERS
CARGO COMP HEIGHT	1.9812 METERS
CARGO COMP VOLUME	34.82 Cubic Meters

<b>FUEL</b>	
TOTAL USEABLE FUEL CAPACITY	3897.8 LITERS

<b>CRUISE</b>	
NOMINAL FUEL CONSUMP @ 26900lbGrossWeight	453.59 KILOGRAMS

<b>WEIGHTS</b>	
<b>MAXIMUM WEIGHTS</b>	
Ramp Weight	13290 kg
Maximum Take-Off Weight	13154 kg
Maximum Landing Weight	13041 kg
Maximum Weight in Cargo Compartment	5347.9 kg
Maximum Zero Fuel Weight	11884 kg
<b>STANDARD AIRPLANE WEIGHTS (lbs.)</b>	
Standard Empty Weight	7125.9 kg
Maximum Useful Load (including ramp fuel)	6164.3 kg
<b>CARGO SPACE</b>	
Main Compartment (sqr. ft.)	287.6 S.F.
Lavatory Compartment (sqr. ft.)	15.0 S.F.
Cargo Door Size (in. wide x in. high)	84x56 2.13360x1.42240 Meters
<b>SPECIFIC LOADING</b>	
Wing Loading (lbs. per S.F.)	13.018
Power Loading (lbs. per hp)	4.6266

<b>TAKE OFF PERFORMANCE (ISA SL, 29 000 lb GTOW.)</b>	
STALL SPEED. (CLEAN)	69 KIAS.
STALL SPEED (GEAR + FLAPS, EXTENDED)	64 KIAS.
V1	78 KIAS.
VR	80 KIAS.
V2	86 KIAS.
T/O DIST. (TO 35 ft)	3600 ft. - 1097.28 Meters
ACC/ STOP DIST	3220 ft. - 981.456 Meters
FIRST SEGMENT CLIMB	1.9% Gross Grad.
SECOND SEGMENT CLIMB	4.0% Gross Grad.
EN ROUTE CLIMB. (2000 ft AGL)	2.1% Gross Grad.

<b>LANDING PERFORMANCE. ( ISA SL, 26 900 lb GLW.)</b>	
APPROACH SPEED VREF.	84 KIAS
LANDING DIST. (50 ft OBSTACLE)	2750 ft. NO REVERSE POWER (838 Meters)
APPROACH CLIMB	4.0% Gross. Grad.
BALKED LANDING CLIMB	5.2% Gross. Grad.

**NOTE: TAKE OFF AND LANDING PERFORMANCE TABLES SHOWN ASSUME WIND= 0 kts AND RUNWAY SLOPE = 0%.**

<b>CRUISE PERFORMANCE (ISA, 10 000 ft AMSL, 26 000 lb GW.)</b>		
<b>PERCENTAGE CRUISE PWR</b>	<b>KTAS</b>	<b>TOTAL FUEL FLOW</b>
<b>100% CRUISE POWER</b>	<b>196 KTAS</b>	<b>1017 lb/hr – 461.30 Kg</b>
<b>80% CRUISE POWER</b>	<b>182 KTAS</b>	<b>884 lb/hr – 400.98 Kg.</b>
<b>60% CRUISE POWER</b>	<b>165 KTAS</b>	<b>764 lb/hr – 346.54 Kg.</b>

<b>RANGE ( 1 Hour Reserve)</b>				
<b>POWER SETTING</b>	<b>AMBIENT CONDITIONS</b>	<b>FUEL FLOW</b>	<b>TRUE AIRSPEED</b>	<b>RANGE</b>
<b>60% CRUISE</b>	<b>10000 ft, ISA</b>	<b>764 lb/hr</b>	<b>165 KTAS</b>	<b>1325 nm – 3132.38 Kilometers</b>
<b>80% CRUISE</b>	<b>10000 ft, ISA</b>	<b>884 lb/hr</b>	<b>182 KTAS</b>	<b>1240 nm – 1995.59 Kilometers</b>
<b>100% CRUISE</b>	<b>10000 ft, ISA</b>	<b>1017 lb/hr</b>	<b>196 KTAS</b>	<b>1133 nm – 1823.39 Kilometers</b>

Indicated airspeed at 60% Cruise power = 138 kIAS.

Indicated airspeed at 80% Cruise power = 154 kIAS.

Indicated airspeed at 100% Cruise power = 167 kIAS.

Fuel on climb, @ 29 000 lb AUW (13,154 Kg.), power set to Max Climb, fuel flow as follows:-

1000 ft.....1151 lb/hr. (522.09 Kg)Total.  
3000 ft.....1103 lb/hr. (500.31 Kg.)Total.  
5000 ft.....1076 lb/hr. (488.07 Kg.)Total.  
8000 ft.....1042 lb/hr. (472.64 Kg.)Total.  
11000 ft.....991 lb/hr. (449.51Kg.)Total.  
13000 ft.....944 lb/hr. (428.19 Kg.)Total.

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