

TEXTRON AVIATION

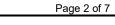
Air Safety Investigations Aircraft Incident/Accident Technical Report

Aircraft Incident/	Year: 2004	Make: Cess	sna	Model: 560			
Accident Information	Serial number: 560-0654		N654CE				
Location: Benbrook, TX			Date: 02-12-20	Time: 1527 CST			
Aircrat	't Owner	Aircraft Operator					
SC Cole Aviation LLC		Same as Aircraft Owner					
Midland, TX 79710-0076							
	Report	rt Information					
Chief Air Safety Investigate	or: Andrew L. Hall	Report #: ASI-20-AT-T Report date: 08-03-20					

Airframe

Impact Sequence and Airframe Structure

The lower right cowling and most of the upper right cowling were missing. There was a small section of the upper right cowling which remained attached and a small section of the lower cowling was recovered from the vertical stabilizer. Inspection of the cowling fasteners revealed that all but one of the forward fasteners were present in the engine inlet portion of the nacelle, some of which had small pieces of cowling skin still attached. The one fastener which was missing was the 4th fastener down from the top on the forward inboard edge of the lower cowling.





Other damage noted to the aircraft was the base of the vertical stabilizer at the dorsal fin saddle. Oil canning of the skin was noted on the left side of the vertical stabilizer. The top of the left horizontal stabilizer and elevator were observed with some damage. All three axis controls were free to operate with no abnormal resistance.





Airframe Systems

Flight Control System Information								
Control lock: Undetermined								
		Flight Control Cable Continuity						
Ailerons: Estat	olished	Elevators: Established	Rudder: Established					
Aileron tab: Es	tablished	Elevator tab: Established	Rudder tab: Established					
		Flap and Trim Positions						
Flap indicator:	Up	Flap handle: Up	Flap actuator: Up					
Elevator trim:	Indicator: Takeoff ran	nge Actuator:	Undetermined					
Rudder trim: Indicator: Neutral Actuator: Undetermined								
Aileron trim: Indicator: Neutral Actuator: Undetermined								
Remarks:								

None

Airframe Fuel System Condition, Controls, and Read Outs									
Fuel filter screen: Left: Undetermined Right: Undetermined									
Main fuel tank gauge:	Left: Undetermined	Right: Undetermined							
Crossfeed: Off		Fuel boost pump:	Left: Off	Right: Off					
Remarks:									

None

None

	Landing Gear System Condition and Controls								
Gear position:	Nose: Extended	Left:	Extend	ded	R	ight: Extended			
Actuator position:	Nose: Extended	Left:	Extend	ded	Ri	ight: Extended			
Landing gear selec	tor: Extended		Anti-s	kid: On					
Aux gear control: S	Stowed		Blow-	down bottle q	juantity: I	N/A			
	Enviror	nmental System	Contro	ols and Re	ad Outs	i de la companya de l			
Cabin heater: N/A		Cabin vent: N/A			Defrost:	N/A			
Air conditioner: N//	4	Oxygen system: l	Jndeter	mined	Oxygen	quantity: N/A			
	Pressu	rization System	Contro	ols and Re	ad Outs				
Cabin VSI: N/A			Cabin altitude: N/A						
Differential pressur	e: N/A		Source selector knob: Normal						
	lcir	ng System Inforr	nation	and Switc	hes				
Certified into known	n icing? Yes		De-icing boots installed? See below						
Pitot heat: Off			Stall heat: Off						
De-ice: Surface:	De-ice: Surface: Off Windshield: Off								
Anti-ice: Surface: Off Windshield: Off									
	ELT Information								
Installed? Yes	Manufacturer: Arte	ex	Model: C406-2 Type: N/A			Type: N/A			
Serial number: 170	0-13934 Battery d	lue date: 06-30-21		Armed: Yes	d: Yes Activated: No				

Remarks:

Wings and engine are anti-iced, and the horizontal stabilizer has de-ice boots installed.

Cabin and Equipment/Furnishings

	Restraint System Information									
Seat	Occupied	Restraint type	Restraint used	Condition	Manufacturer					
1	Yes	5-Point	Yes	Good	Cessna					
2	No	5-Point	No	Good	Cessna					
3	No	3-Point	No	Good	Cessna					
4	No	3-Point	No	Good	Cessna					
5	No	3-Point	No	Good	Cessna					
6	Yes	3-Point	Yes	Good	Cessna					
7	No	3-Point	No	Good	Cessna					
8	No	3-Point	No	Good	Cessna					

Seat Condition Information									
Seat	Orientation	Feet intact	Back intact	Base intact	Rail intact				
1	Forward facing	Yes	Yes	Yes	Yes				
2	Forward facing	Yes	Yes	Yes					
3	Rear facing	Yes	Yes	Yes					
4	Rear facing	ear facing Yes Yes		Yes	Yes				
5	Forward facing	Forward facing Yes Yes		Yes	Yes				
6	Forward facing	Yes	Yes	Yes	Yes				
7	Forward facing	vard facing Yes Yes Yes		Yes					
8	Forward facing	Yes	Yes	Yes	Yes				

Remarks:

None

Instrument Panel

	Navigation Instruments									
Digital pri	mary ins	truments				AOA indicator: Undetermined				
Suction g	age: Un	determined	1	Magnetic co	mpas	npass: Undetermined Clock: Undetermined				ed
		Left side	Righ	nt side					Left side	Right side
Airspeed:		Undt	Und	t	Turn	coordinato	or (airplane	e):	Undt	Undt
Attitude (pitch):	Undt	Und	t	Turn	coordinate	or (ball):		Undt	Undt
Attitude (roll):	Undt	Und	t	Head	ling indicat	tor:		Undt	Undt
Altimeter:		Undt	Und	t	Head	ing "bug":			Undt	Undt
Altimeter	setting:	Undt	Und	t	Vertio	cal speed i	indicator:		Undt	Undt
Stand-by:	Airspe	ed: Undt		Attitu	ıde (p	itch): Und	t		Attitude (roll): U	ndt
Stand-by	Altime	ter: Undt				Alt	imeter sett	ting:	Undt	
	-		Con	nmunicatio	on ar	nd Naviga	ation Ra	dios	S	
Radio	Control	Active frequ	ency	Stand-by frequency		Radio	Control		Active frequency	Stand-by frequency
Com 1:	Undt	Undetermine	ed	Undetermi	ned	Com 2:	Undt	l	Undetermined	Undetermined
Nav 1:	Undt	Undetermin	ed	Undetermi	ned	Nav 2:	Undt	l	Undetermined	Undetermined
Obs 1:	Undeter	mined				Obs 2: Undetermined				
Transpon	der: N	lode: Undeterm	ined	ļ	Active	code: Undetermined Stand-by code: Undetermined				
	-			Electric	al Sv	vitch Pos	sitions		-	
Master ba	attery: O	ff				Stand-by battery: Off				
Left gene	rator: Of	ff				Right generator: Off				
Avionics	1: Off					Avionics 2: Undetermined				
Inverter:	Off									
				Lightin	g Sw	itch Pos	itions			
Navigatio	n: Off		Rota	ating beaco	n: Off			La	nding: Off	
Taxi: Off Strobe: Off								Ins	strument: Undete	rmined
Wing ice:	Off									
				Ignitio	n Sw	itch Posi	itions			
Left engir	Left engine: Undetermined Right engine: Undetermined									
Remarks	:									

None

Powerplant Description

Engine Instruments												
Hour meter:	Hour meter: Undetermined											
	Left E	Engir	ne	F	Right Engine		Left Engine		R	ight Engine		
N1 RPM:	Undt			l	Jndt	Oil temp:	l	Und	t	υ	ndt	
N2 RPM:	Undt			l	Jndt	Oil press	. 1	Und	t	υ	ndt	
ITT:	Undt			l	Jndt	Ammeter	: ।	Und	t	υ	ndt	
Fuel flow:	Undt			ι	Jndt	Voltmeter	r: I	Und	t	υ	ndt	
	•			•	Engine Co	ontrol Posi	tio	ns				
Left engine:		Coo	ckpit		Engine	Right engine:		Cockpit			Engine	
Power lever	:	Cut	off		Undetermined Power lever:		r:	Cutoff			Undetermined	
Thrust rever	ser:	Sto	wed		Undetermined	Thrust reverser:		er: Stowed			Undetermined	
Ground idle:	Unde	etern	nined			Engine syn	c: l	Und	etermined			
			Fire P	rot	tection and Thru	ist Revers	er	Swi	itch Positions			
			Left engin	е			I	Righ	nt engine	engine		
Emergency	stow:		Norm				1	Norm				
Covered fire switch: Undetermined U					Undetermined							
					Engin	e Conditio	n					
	Left engine						Right engine					
Engine attac	Engine attached to airframe: Yes Yes								Yes			

Remarks:

No inspection of the engine controls was accomplished during the on-site evaluation.

Research & Testing

The following items were removed and retained by the NTSB for analysis at the NTSB laboratory: All of the forward fasteners were removed from their receptacles and placed in individual marked bags. The inboard upper six receptacles were removed and placed in individual marked bags. Also, both sections of the recovered cowling. The inspection of the component part sent to the NTSB lab has not been completed as of the time of this writing.