



Memorandum For Record

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Sr. Air Safety Investigator
Eastern Region

Date: 4/25/2023
NTSB Accident Number: ERA21LA201

Fuel consumption calculations were performed using the performance charts found in the Pilot's Operating Handbook and Federal Aviation Administration Approved Airplane Flight Manual (POH/AFM). For the calculations, the fuel used for engine start, run-up, taxi and takeoff was specified to be 2.0 gallons. Additionally, the worse case fuel consumption of 15.2 gallons-per-hour, and 1 hour 17 minutes, or about 1.3 hours were utilized for the calculations. Based on fuel used for four takeoffs and flight duration of about 1.3 hours, the maximum estimated fuel consumption was about 28 gallons.

A weight and balance document found among the wreckage (Attachment 1) specified that the main wing fuel tank capacity was 74 gallons.

ATTACHMENT 1

Basic Empty Weight and Balance

Make: Beech Date: August 4, 2020
 Model: A36
 Serial No: E-781 Weighed By: [REDACTED]
 Registration No: N125WC Certificate No: [REDACTED]

Reaction Wheel Jack Points	Scale Reading	Tare	Net Weight	Arm	Moment
Right Main	1273.00	1.00	1272.00		
Left Main	1275.00	-1.00	1276.00		
Sub Total	2548.00	0.00	2548.00	96.00	244608.00
Nose	821.00	2.00	819.00	3.10	1918.90
Total (as weighed)	3169.00	2.00	3167.00		246526.90
Total Items Table I			-624.00		-48960.00
Total Items Table II			0.00		0.00
Certified Empty Weight			2543.00	77.60	197566.90

Table I

Items weighed but not part of aircraft	Weight	Arm	Moment
Aircraft Weighed with Fuel and Engine Oil			0.00
Remove 74 Gallons of Usable Fuel @ 6 lbs / Gallon (Wing)	444.00	75.00	33300.00
Remove 30 Gallons of Usable Fuel @ 6 lbs / Gallon (Tops)	180.00	87.00	15660.00
			0.00
ESW Includes Full Engine Oil			0.00
Total	624.00		48960.00

Table II

Items not in when weighed	Weight	Arm	Moment
Aircraft Weighed IAW TCDS 3A15 rev. 98 and AC4513 1B Change 1 and STC 5A153EA			0.00
			0.00
			0.00
			0.00
Aircraft Weighed with JAWS Platform Scales			0.00
Calibrated and Certified 07/10/20, next due 07/10/21			0.00
Serial No: 137FF9C20, 137FF9DEB, 137FF671C			0.00
Total	0.00		0.00

On-Site Weight and Balance

Lakeland, FL

"A Balance of Cost and Convenience"