

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Subject: Re: ERA18LA186 Piper PA34
Date: Wednesday, July 11, 2018 10:43:52 AM
Attachments: [PA-34-220T POM Section 5 - Takeoff Climb Performance.pdf](#)

Brian,

It looks like the single engine climb rate, at the maximum takeoff weight, is about 280 feet per minute.

This was determined using the following data and the performance chart from the AFM:

OAT: 28 C (from METAR)

Pressure altitude: -143'

Pressure altitude = (standard pressure - altimeter setting) x 1,000 +
field elevation

Pressure altitude = (29.92 - 30.08) x 1,000 + 17'

Pressure altitude = (-.16) x 1,000 + 17'

Pressure altitude = -160 + 17'

Pressure altitude = -143'

Weight: 4,407 lbs. (maximum takeoff weight)

A copy of the performance chart is attached.

Let me know if you need anything else.

Best regards,

Jon Hirsch

Piper Aircraft Inc. - Air Safety Investigator

[REDACTED]
[REDACTED]

From: Martellotti, Robert
Sent: Wednesday, July 11, 2018 8:02 AM
To: Hirsch, Jonathon
Subject: FW: ERA18LA186 Piper PA34

Jon,

Can you assist on the below request for Brian?

Thank you,

PA-34-220T

TAKEOFF CLIMB PERFORMANCE

Example:

O.A.T.: 10°C

Pressure altitude: 10,000 ft.

Weight: 4000 lbs.

Two engine rate of climb: 1660 fpm

One engine rate of climb: 300 fpm

ASSOCIATED CONDITIONS:

TAKEOFF POWER FULL RICH MIXTURE

GEAR UP WING FLAPS 0°

COWL FLAPS 1/2 OPEN ON OPERATING

ENGINE(S) CLOSED ON INOPERATIVE ENGINE

INOPERATIVE ENGINE FEATHERED

CLIMB SPEED 92 KIAS

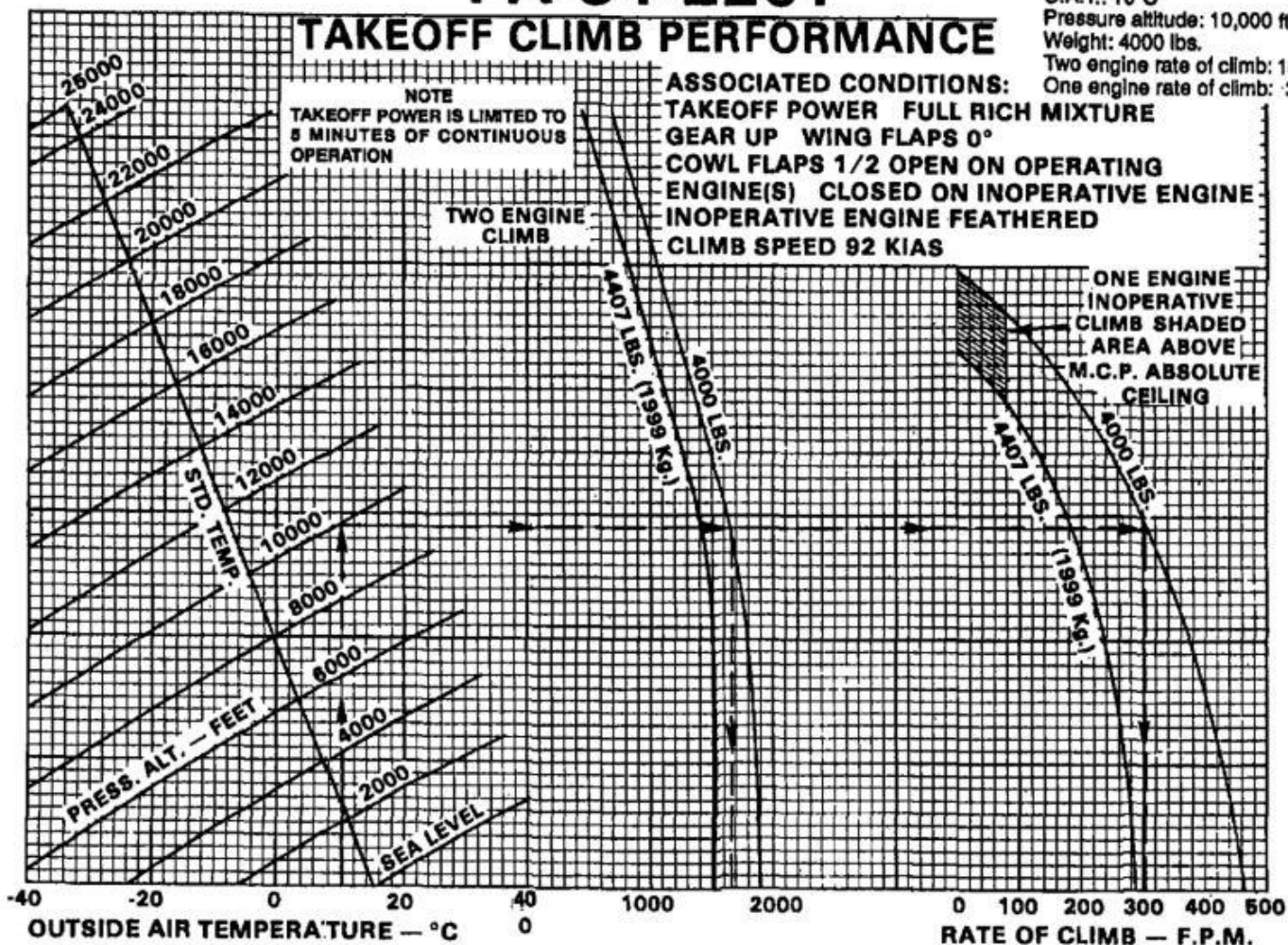


Figure 5-19

TAKEOFF CLIMB PERFORMANCE - GEAR RETRACTED