TCDSN No.: EASA.IM.A.077 Piper PA-46 Page 1 of 12 Date: 03 January 2024

Issue: 8



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.IM.A.077

for

Piper PA-46

Type Certificate Holder: Piper Aircraft, Inc. 2926 Piper Drive Vero Beach, Florida 32960 U.S.A.

For models:

PA-46-310P

PA-46-350P

PA-46-500TP

PA-46-600TP

PA-46R-350T



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Type Certificate Holder¹ Piper Aircraft, Inc. Aircraft Type Designation¹ PA-46-310P

> (Commercial Designation Malibu)

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Engine Manufacturer¹ **Continental Aerospace Technologies, Inc.** Engine Type Designation¹ TSIO-520-BE()

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter1 6

EACA			Additional modifications essential to	Maximum	Overflig	ht dB(A)	Soo
Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	meet the requirements or needed to attain the certificated noise levels ¹	Take-Off Mass ¹ (kg)	Level ¹	Limit	See Note
C4487	Hartzell Propeller Inc.	BHC-C2YF-1BF/F8052()	None	1,860	74.8	80.0	-



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Type Certificate Holder¹ Piper Aircraft, Inc. Aircraft Type Designation¹ PA-46-350P

(Commercial Designation Malibu Mirage)

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Date: 03 January 2024

Engine Manufacturer¹ Lycoming Engines Engine Type Designation¹ TIO-540-AE2A

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 10 (10.4a)

EACA	Dropollor		Additional modifications essential to meet	Maximum	Take-Off dB(A)		See
Record No. Propeller Propeller Type Manufacturer¹ Propeller Type		Propeller Type Designation ¹	the requirements or needed to attain the certificated noise levels ¹		Level ¹	Limit	Note
C4504	Hartzell Propeller Inc.	HC-I2YR-1BF/F8074()	None	1,950	80.3	88.0	-
C5167	Hartzell Propeller Inc.	HC-I3YR-1E/7890K	None	1,969	83.1	88.0	-
C137	Hartzell Propeller Inc.	HC-I3YR-1E/7890K	None	1,950	83.1	88.0	-

¹ See Note 1.



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Type Certificate Holder¹ Piper Aircraft, Inc. Aircraft Type Designation¹ PA-46-350P

(Commercial Designation Malibu Mirage)

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Date: 03 January 2024

Engine Manufacturer¹ Lycoming Engines Engine Type Designation¹ TIO-540-AE2A

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 10 (10.4b)

EASA Propoller			Additional modifications essential to meet	Maximum	Take-O	ff dB(A)	500
Record No.	EASA Propeller Propeller Type Designation ¹ Record No. Manufacturer ¹	the requirements or needed to attain the certificated noise levels ¹	Take-Off Mass ¹ (kg)	Level ¹	Limit	See Note	
C9916	Hartzell Propeller Inc.	HC-I3Y1R-1N/N7605()+2	None	1,969	81.0	85.0	-



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Type Certificate Holder¹ Piper Aircraft, Inc. Aircraft Type Designation¹ PA-46-350P

(Commercial Designation Malibu Mirage)

Engine Manufacturer¹ Lycoming Engines Engine Type Designation¹ TIO-540-AE2A

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 6

EACA			Additional modifications essential to	Maximum	Overflig	ht dB(A)	500
Record No.	Propeller Manufacturer ¹	Propeller Type Designation ¹	meet the requirements or needed to attain the certificated noise levels ¹	Take-Off Mass¹ (kg)	Level ¹	Limit	See Note
C4503	Hartzell Propeller Inc.	HC-I2YR-1BF/F8074()	None	1,950	74.1	80.0	-



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Date: 03 January 2024

Type Certificate Holder¹ Piper Aircraft, Inc. Aircraft Type Designation¹ PA-46-500TP

> (Commercial Designation Malibu Meridian)

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Engine Manufacturer¹ **Pratt & Whitney Canada** Engine Type Designation¹ PT6A-42A

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 10 (10.4b)

EACA	Dropollor		Additional modifications essential to meet	Maximum	Take-Off dB(A)		See
EASA Propeller Propeller Type Record No. Manufacturer¹	Propeller Type Designation ¹	the requirements or needed to attain the certificated noise levels ¹		Level ¹	Limit	Note	
C140	Hartzell Propeller Inc.	HC-E4N-3Q/E8501B-3.5	None	2,310	76.8	85.0	-
C139	Hartzell Propeller Inc.	HC-E4N-3Q/E8501B-3.5	None	2,200	73.7	85.0	-
C4521	Hartzell Propeller Inc.	HC-E4N-3Q/E8501B-3.5	None	1,999	72.0	85.0	-

¹ See Note 1.



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Type Certificate Holder¹ Piper Aircraft, Inc. Aircraft Type Designation¹ PA-46-600TP

> (Commercial Designation M600)

Engine Manufacturer¹ **Pratt & Whitney Canada** Engine Type Designation¹ PT6A-42A

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 7 / Amendment 11-B Chapter¹ 10 (10.4b)

EASA Propeller Propeller To Record No. Manufacturer Propeller To Prope			Additional modifications essential to meet	Maximum	Take-O	ff dB(A)	See
		Propeller Type Designation ¹	the requirements or needed to attain the certificated noise levels ¹		Level ¹	Limit	Note
C13539	Hartzell Propeller Inc.	5D3-N338A1/78D01B	None	2,722	75.8	85.0	-
C13436	Hartzell Propeller Inc.	HC-E4N-3Q/E8501K-3.5	None	2,722	75.8	85.0	-



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Type Certificate Holder¹ Piper Aircraft, Inc. Aircraft Type Designation¹ PA-46R-350T

(Commercial Designation Malibu Matrix)

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ TIO-540-AE2A

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Chapter¹ 10 (10.4b)

EASA Propeller			Additional modifications essential to meet	Maximum	Take-O	ff dB(A)	500
Record No.	Record No. Propeller Propeller Type Designation ¹	Propeller Type Designation ¹	the requirements or needed to attain the certificated noise levels ¹	Take-Off Mass ¹ (kg)	Level ¹	Limit	See Note
C9917	Hartzell Propeller Inc.	HC-I3Y1R-1N/N7605()+2	None	1,969	81.0	85.0	-



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Type Certificate Holder¹ PA-46R-350T Piper Aircraft, Inc. Aircraft Type Designation¹

(Commercial Designation Malibu Matrix)

Engine Manufacturer¹ **Lycoming Engines** Engine Type Designation¹ TIO-540-AE2A

Noise Certification Basis ICAO Annex 16, Volume I Edition / Amendment Edition 3 / Amendment 7 Chapter¹ 10 (10.4b)

EACA	Dropollor		Additional modifications essential to meet	Maximum	Take-O	ff dB(A)	See
Record No. Propeller Propeller Type Designation Manufacturer Propeller Type Designation		Propeller Type Designation	the requirements or needed to attain the certificated noise levels ¹	Take-Off Mass¹ (kg)	Level ¹	Limit	Note
C5712	Hartzell Propeller Inc.	HC-I3YR-1E/7890B	None	1,969	81.3	85.0	-
C5711	Hartzell Propeller Inc.	HC-I3YR-1E/7890K	None	1,969	81.3	85.0	-



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CS-36 Amendment level

ICAO, Annex 16, Volume I Amendment level	7	8	9	10	11-B	12	13
Corresponding CS-36 Amendment level	Initial	1	2	3	4	5	6

TCDSN EASA.IM.A.077 Notes

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.



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Change Record

Issue	Date	Changes
Issue 1	22 October 2007	Initial Issue
Issue 2	20 October 2008	Revised
Issue 3	03 March 2011	Added records C5167 and C9916
Issue 4	19 August 2013	Added record C9917.
Issue 5	05 September 2017	Added model PA-46-600TP
Issue 6	27 October 2017	Added record C13539
Issue 7	19 June 2018	Revised
Issue 8	03 January 2024	MTOM of model PA-46-600TP changed to 2.722 kg

