



TYPE-CERTIFICATE DATA SHEET FOR NOISE

No. EASA.IM.A.022

for

DA 40

Type Certificate Holder:

Diamond Aircraft Industries Inc.

1560 Crumlin Sideroad, London Ontario

N5V 1S2

CANADA

For models:

DA 40

DA 40 D

DA 40 F

DA 40 NG



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Type Certificate Holder¹ **Diamond Aircraft Industries Inc.** Aircraft Type Designation¹ **DA 40**

Engine TC Holder **Lycoming Engines** Engine Type Designation¹ **IO-360-M1A**

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

| EASA Record No. | Propeller TC Holder | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹ | Maximum Take-Off Mass ¹ (kg) | Take-Off dB(A) | | See Note |
|--------------------|--|---|--|---|--------------------|-------------|-------------|
| | | | | | Level ¹ | Limit | |
| C13544 | MT-Propeller Entwicklung GmbH | MTV-12-B/180-17() | Muffler: Diamond Aircraft D41-7800-00-00 | 1,150 | 69.3 | 85.2 | - |

¹ See Note 1.



Type Certificate Holder¹ **Diamond Aircraft Industries Inc.** Aircraft Type Designation¹ **DA 40**

Engine TC Holder **Lycoming Engines** Engine Type Designation¹ **IO-360-M1A**

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

| EASA Record No. | Propeller TC Holder | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹ | Maximum Take-Off Mass ¹ (kg) | Take-Off dB(A) | | See Note |
|--------------------|--|---|--|---|--------------------|-------------|-------------|
| | | | | | Level ¹ | Limit | |
| C13543 | MT-Propeller Entwicklung GmbH | MTV-12-B/180-17() | MÄM 40-227 (MTOW Increase), Muffler: Diamond Aircraft D41-7800-00-00 | 1,200 | 78.4 | 81.5 | - |

¹ See Note 1.



Type Certificate Holder¹ **Diamond Aircraft Industries Inc.** Aircraft Type Designation¹ **DA 40 D**

Engine TC Holder **Continental Aerospace Technologies GmbH** Engine Type Designation¹ **TAE 125-01**

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

| EASA Record No. | Propeller TC Holder | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹ | Maximum Take-Off Mass ¹ (kg) | Take-Off dB(A) | | See Note |
|--------------------|--|---|--|---|--------------------|-------------|-------------|
| | | | | | Level ¹ | Limit | |
| C13545 | MT-Propeller Entwicklung GmbH | MTV-6-A/187-129 | Muffler: Diamond Aircraft D4D-7806-00-00 | 1,150 | 78.7 | 80.9 | - |
| C13546 | MT-Propeller Entwicklung GmbH | MTV-6-A/187-129 | Muffler: Diamond Aircraft D4D-7807-00-00 () OÄM 40-096 | 1,150 | 69.5 | 80.9 | - |

¹ See Note 1.



Type Certificate Holder¹ **Diamond Aircraft Industries Inc.** Aircraft Type Designation¹ **DA 40 D**

Engine TC Holder **Continental Aerospace Technologies GmbH** Engine Type Designation¹ **TAE 125-02-99**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **Edition 4 / Amendment 8** Chapter¹ **10 (10.4b)**

| EASA Record No. | Propeller TC Holder | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹ | Maximum Take-Off Mass ¹ (kg) | Take-Off dB(A) | | See Note |
|--------------------|--|---|--|---|--------------------|-------------|-------------|
| | | | | | Level ¹ | Limit | |
| C13547 | MT-Propeller Entwicklung GmbH | MTV-6-A/187-129 | Muffler: Diamond Aircraft D4D-7807-10-00 () OÄM 40-096 | 1,150 | 73.0 | 80.9 | - |
| C13548 | MT-Propeller Entwicklung GmbH | MTV-6-A/187-129 | Muffler: Diamond Aircraft D4D-7807-10-00 () OÄM 40-096 | 980 | 73.0 | 78.4 | - |

¹ See Note 1.



Type Certificate Holder¹ **Diamond Aircraft Industries Inc.** Aircraft Type Designation¹ **DA 40 F**

Engine TC Holder **Lycoming Engines** Engine Type Designation¹ **O-360-A4M**

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

| EASA Record No. | Propeller TC Holder | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹ | Maximum Take-Off Mass ¹ (kg) | Take-Off dB(A) | | See Note |
|--------------------|--|---|--|---|--------------------|-------------|-------------|
| | | | | | Level ¹ | Limit | |
| C13549 | Sensenich Propeller Manufacturing Company, Inc. | 76EM8S10-0-63 | Muffler: Diamond Aircraft A099005-130 | 1,150 | 74.8 | 80.9 | - |
| C13550 | MT-Propeller Entwicklung GmbH | MT 188 R 135-4G | Muffler: Aerospace Welding A099005-130 | 1,150 | 75.8 | 80.9 | - |

¹ See Note 1.



Type Certificate Holder¹ **Diamond Aircraft Industries Inc.** Aircraft Type Designation¹ **DA 40 NG**
Engine TC Holder **Austro Engine GmbH** Engine Type Designation¹ **E4**
Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **Edition 5 / Amendment 9** Chapter¹ **10 (10.4b)**

| EASA Record No. | Propeller TC Holder | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹ | Maximum Take-Off Mass ¹ (kg) | Take-Off dB(A) | | See Note |
|-----------------|-------------------------------|---|--|---|--------------------|-------|----------|
| | | | | | Level ¹ | Limit | |
| C13554 | MT-Propeller Entwicklung GmbH | MTV-6-R/190-69 | OÄM 40-334 (Landing Gear with Large Tyres and 1280kg Maximum Landing Mass), Engine: E4-A (in accordance with DAI MSB E4-002), Muffler: Diamond Aircraft D44-7806-10-00_() | 1,280 | 75.3 | 82.5 | - |
| C13555 | MT-Propeller Entwicklung GmbH | MTV-6-R/190-69 | OÄM 40-334 (Landing Gear with Large Tyres and 1280kg Maximum Landing Mass), Engine: E4-A (in accordance with DAI MSB E4-002), Muffler: Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310 | 1,280 | 72.1 | 82.5 | - |
| C13557 | MT-Propeller Entwicklung GmbH | MTV-6-R/190-69 | Engine: E4-A (in accordance with DAI MSB E4-002), Muffler: Diamond Aircraft D44-7806-10-00_() | 1,280 | 74.5 | 82.5 | - |
| C13558 | MT-Propeller Entwicklung GmbH | MTV-6-R/190-69 | Engine: E4-A (in accordance with DAI MSB E4-002), Muffler: Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler | 1,280 | 71.5 | 82.5 | - |

¹ See Note 1.



| | | | | | | | |
|--|--|--|-------------------------------------|--|--|--|--|
| | | | iaw MAM 40-434 or OAM 40-310 | | | | |
|--|--|--|-------------------------------------|--|--|--|--|



Type Certificate Holder¹ **Diamond Aircraft Industries Inc.** Aircraft Type Designation¹ **DA 40 NG**
Engine TC Holder **Austro Engine GmbH** Engine Type Designation¹ **E4**
Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **Edition 6 / Amendment 10** Chapter¹ **10 (10.4b)**

| EASA Record No. | Propeller TC Holder | Propeller Type Designation ¹ | Additional modifications essential to meet the requirements or needed to attain the certificated noise levels ¹ | Maximum Take-Off Mass ¹ (kg) | Take-Off dB(A) | | See Note |
|--------------------|----------------------------------|---|---|---|--------------------|-------|-------------|
| | | | | | Level ¹ | Limit | |
| C13551 | MT-Propeller Entwicklung GmbH | MTV-6-R/190-69 | MÄM 40-662 (1310 kg MTOM), Engine: E4-A (in accordance with DAI MSB E4-002), Muffler: Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310 | 1,310 | 71.4 | 82.9 | - |
| C13552 | MT-Propeller Entwicklung GmbH | MTV-6-R/190-69 | MÄM 40-662 and OÄM 40-334 (1310 kg MTOM and Landing Gear with Large Tyres and 1280kg Maximum Landing Mass), Engine: E4-A (in accordance with DAI MSB E4-002), Muffler: Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310 | 1,310 | 72.4 | 82.9 | - |
| C13553 | MT-Propeller Entwicklung GmbH | MTV-6-R/190-69 | MÄM 40-662 and OÄM 40-394 (1310 kg MTOM and RACC ON during T/O and Landing), Engine: E4-A (in accordance with AE MSB E4-002), Muffler: Diamond | 1,310 | 71.8 | 82.9 | - |

¹ See Note 1.



| | | | | | | | |
|--------|--------------------------------------|-----------------------|---|--------------|-------------|-------------|----------|
| | | | Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310 | | | | |
| C13556 | MT-Propeller Entwicklung GmbH | MTV-6-R/190-69 | OÄM 40-394 (RAAC ON during T/O and Landing), Engine: E4-A (in accordance with AE MSB E4-002), Muffler: Diamond Aircraft D44-7806-20-00_() Exhaust System with Muffler iaw MÄM 40-434 or OÄM 40-310 | 1,280 | 71.6 | 82.5 | - |



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 |

Note: This table is for information purposes only. It links the applicable noise requirements in Volume I of ICAO Annex 16 to the corresponding Appendices to that Volume, which were listed as acceptable means of compliance in CS-36. With the adoption of Regulation (EU) 2018/1139 (i.e. from Amendment 12 to Volume I of ICAO Annex 16) these Appendices became part of the applicable noise requirements. Their reference was removed in Amendment 6 to CS-36 and this table will not be updated further.

TCDSN EASA.IM.A.022 Notes

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



Change Record

| Issue | Date | Changes |
|--------------|------------------|--|
| Issue 1 | 15 November 2017 | Initial Issue |
| Issue 2 | 26 March 2025 | Update of noise limit/chapter (C13545, C13546, C13547, C13548, C13549) and correction of one noise level (C13543) |

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