

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

• NR2700

10,15 1500

ENGINE LOG

1. Make:	Austro Engines GmbH
2. Model:	E4-A
3. Specification:	E00081EN
4. Manufacturer's Serial Number:	E4-A-06535
5. Date of Manufacture:	MAY 04 2023
6. Aircraft Inspection Cycle:	



Section 3A: Engine Service and Maintenance Log



DIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MANUFACTURER #161-93

Registration: N227PS
AC Serial Number: 40.NC247
Engine Serial Number: E4-A-06535
Prop Serial Number: 231133
Airframe Total Time: 3.2 HRS

- Total Time Engine Brought forward from Flight Test Journey Log (DAI - Form Q-157): 3.2 HRS
- Engine installed new on Aircraft DA 40 NG, S/N: 40.NC247
- Bi-weekly AWD check carried out to current revision 2023-12 all applicable AD's complied with, see attached.
- The work described above was carried out in accordance with the applicable Standard of Airworthiness.

DA
Q 8
Inspector

JUN 16 2023
Date

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ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N227PS Austro E4-A S/N: E4-A-06535 Engine Total Time: 46.6

9 April 2024 Tach: 46.6

Complied with Austro AD 2024-05-01 ((Cap Screws) by installing new main bearing cap screws in accordance with MSB-E4-042/1 and work instruction WI-MSB-E4-042 R2. Installed a new oil pump pickup tube P/N: E4A-50-110-000. Installed a new oil filter. Serviced engine with Shell 10W40 Diesel Oil. Completed pre and post run checks and compared readings. Ground run up. Leak check and operation check was satisfactory. w/o 44962

Kevin Mosher A&P3443784



Engine Log Entry

Diamond DA-40NG
Engine: Austro E4
Prop: MT MTV-6
WO#SO-24-00433

Aircraft: N227PS
Aircraft S/N: 40.N247
Engine S/N: E4-A-06535
Prop S/N: 231133

Airframe TT: 82.0
Engine TT: 58.0
Prop TT: 58.0
Date: 6-19-24

Performed Annual/100hr. inspection IAW Austro Engine Maintenance manual chapter 05-20-00. Performed oil sampling required by Austro MSB E4-039-0, Due again in 50hrs. Replaced fuel filter P/N-WK724_3, Replaced oil filter P/N-e4a-52-300-kit and added 7qts of aeroshell diesel ultra. Performed engine run/leak check No defects noted at this time. Performed coolant pressure test and performed leak check, No leaks noted at this time. Downloaded engine data. Performed AD search through AD toolbox, No new AD's at this time

I certify all maintenance performed on this aircraft was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

Jake Brubaker-A&P 3630344
Vail Valley Jet Center-Aircraft Maintenance Department
Gypsum, CO
amx@vvjc.com
Phone: 970-524-4003-Fax: 970-524-9428

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ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N227PS Austro E4-A S/N: E4-A-06535 Engine Total Time: 85.0
 6 November 2024 Tach: 85.0

Complied with Austro AD 2024-19-10 (Piston Cracks) by borescope inspection per Austro MSB-E4-043/0, no cracks or defects found. Next inspection due in 50 hours at Total Time: 135.0. Review of Austro MSB-E4-039/2 (Piston failure / oil sampling) found bulletin does not apply by engine serial number. Serviced the engine gear box oil level. Engine ground run up, operational check and leak check good.
 Kevin Mosher A&P3443784 w/o 45572

CENCE:
 ME or
 10/ACA

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N227PS Austro E4-A S/N: E4-A-06535 Engine Total Time: 130.5
 14 February 2025 Tach: 130.5

Complied with Austro AD 2024-19-10 (Piston Cracks) by borescope inspection with reference to Austro MSB-E4-043/1, no cracks or defects found. Next inspection due in 50 hours at Total Time: 180.5. Changed engine oil and filter with service kit E4A-52-000-Kit and 6 quarts of Aeroshell Diesel Ultra oil. Engine ground run up, operational check and leak check good.
 Kevin Mosher A&P3443784 w/o 45880

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N227PS Diamond DA40NG S/N: 40.NC247 Aircraft Total Time: 130.5
 14 February 2025 Tach: 130.5

Installed a new fuel filter WK72413. Leak check good.

Kevin Mosher A&P3443784 w/o 45880

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N227PS Austro E4-A S/N: E4-A-06535 Engine Total Time: 150.3
 27 June 2025 Tach Time: 150.3 Hobbs: 211.2

100 Hour Inspection for Annual completed this date using the Diamond Maintenance Manual Inspection Form 05-28-00 and Austro check list 05-20-00 as a guide. No oil or filter change completed at this service. Next oil change due at Tach: 230.0. Next Borescope inspection for Austro AD 2024-19-10 (Piston Cracks) due at Tach 180.5. Checked coolant and gearbox oil levels. Ground run up, leak check and operational check good. Downloaded ECU data and submitted. AD's checked through Biweekly 2025-12. Post inspection engine ground run-up, operational check and leak check good. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Kevin Mosher A&P 3443784

w/o 46138

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
 N227PS Austro E4-A S/N: E4-A-06535 Engine Total Time: 158.0
 14 October 2025 Tach Time: 158.0

Removed EECU due to inability to download data from unit. Installed new EECU P/N: E4A-92-000-000, S/N: RC2414793 (1). Removed propeller governor and installed new propeller governor P-853-16,, S/N: 25G616-K/H. Ground run up leak check and operational check was good. Cleared faults and checked ability to download data. Operational check good.

Kevin Mosher A&P 3443784

w/o 46168/46450

Section 3A: Engine Service and Maintenance Log

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N227PS Austro E4-A S/N: E4-A-06535 Engine Total Time: 182.0

13 December 2025 Tach Time: 182.0 Hobbs: 260.9

Complied with Auston AD 2024-19-10 (Piston Cracks) by completing borescope inspection per MSB-E4-043/2. Reinstalled fuel injectors with new seals. Next borescope inspection due Tach: 232.0 hours.

Ground run up leak check and operational check good.

Scott L. Utz A&P3442269

w/o 46577

PERFORMED
MENT)

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N227PS Austro E4-A S/N: E4-A-06535 Total Time: 219.8

16 March 2026 Tach: 219.8 Hobbs: 310.1

Completed oil and filter change (Aeroshell Diesel Ultra). Cut oil filter open and inspected, no contaminants noted. Oil sample submitted. Drained the gear box oil and inspected. Removed the gear box oil filter and inspected, no contaminants noted. Reinstalled gear box oil. Complied with Austo AD 2024-19-10 (Piston Cracks) by completing the borescope inspection per MSB-E4-043/3, using kit MSB-E4043-KIT. Ground run up leak check and operational check good.

w/o 46797

Scott L. Utz A&P3442269

MAKE: Diamond
MODEL: DA40NG
Reg no: N227PS
ACSN: 40.NC247

JARDINE AVIATION LLC.
5280 NORTHPRO ST #6
LOVELAND CO, 80538

DATE: 05/26/2026
Hobbs: 347.0

JARDINE
AVIATION
MAINTENANCE ENGINE INSPECTION

Complied with AD 2016-23-03 V band clamp inspection per AD (f) and mandatory SB 40NG-046/2. No cracks, deformation, or other defects noted. Installed safety wire where missing. Next due in 100hrs. I certify this aircraft approved for return to service for the work performed at this date.

DATE: 05/26/2026

SIGNED:

Joe Jardine AP4515213 IA

MAKE: Diamond
MODEL: DA40NG
S/N: 40.NC247
REG. NO: 227PS
ENGINE MODEL: E4-A
ENGINE SN: E4A-A-06535

Premier
AIRCRAFT SERVICE

Premier Aircraft Service, Inc.
CRS: # 9PRR402B
5540 NW 23rd Avenue Hangar 14
Fort Lauderdale, FL 33309

W/O #: 11454-06-2026
DATE: 06-12-2026
Engine TT: 272.4
Tach: 272.4

Engine Entries

2 C/W AD 2024-19-10 PISTON BORESCOPE INSPECTION IAW MSB-E4-043. NO DEFECTS NOTED AT THIS TIME. NEXT DUE 322.4HRS.

DATE: 06-12-2026

SIGNED:

Dennis Allard
CRS: # 9PRR402B

WORK ORDER: 11454-06-2026
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