

TEMPORARY REVISION

TR-MÄM-40-545

Use of Fuel Grades, Engine- and Gearbox Oil

This Temporary Revision TR-MÄM-40-545 is approved in conjunction with the Mandatory Design Change Advisory MÄM 40-545 and is valid in conjunction with the latest revision of the DA 40 D Airplane Flight Manual until this Temporary Revision has been incorporated into the Airplane Flight Manual.

The limitations and information contained herein either supplement or, in the case of conflict, override those in the Airplane Flight Manual or its previous Temporary Revisions.

The technical information contained in this document has been approved by EASA under EASA approval No. 10036678.

Doc. No.	Chapter	Affected Pages
6.01.05-E	2	2-6a, 2-7a, 2-23c, 2-31c

Instruction

- Print this document on yellow paper (single-sided).
- Insert this cover page as the first page of the AFM.
- Insert the other pages of this TR in front of the corresponding AFM pages.

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2. OPERATING LIMITATIONS

2.4 POWER-PLANT LIMITATIONS

The item "Oil specification" is amended to read:

- n) Oil specification : SHELL HELIX ULTRA 5W-30
SHELL HELIX ULTRA 5W-40
AERO SHELL OIL Diesel 10W-40
AERO SHELL OIL DIESEL ULTRA 5W-30

The item "Gearbox oil (propeller gearbox)" is amended to read:

- p) Gearbox oil (propeller gearbox) : SHELL EP 75W90 API GL-4
- | SHELL SPIRAX GSX 75W-80 GL-4
- | SHELL SPIRAX S4 G 75W-90
- | SHELL SPIRAX S6 GXME 75W-80

CAUTION

If the gearbox oil level is low the reason must be determined and the problem must be corrected by authorized personnel.

2.14 FUEL

The following paragraph is amended to read:

Approved fuel grades:

- JET Fuel: JET A-1 (ASTM D 1655)
JET A (ASTM D 1655)
- JP-8 (MIL-DTL-83133)
JET Fuel No. 3 (China, GB 6537-2006)
- TS-1 (GOST 10227-86) (only if MÄM 40-256 is incorporated)

and blends of the above listed Jet Fuel grades,
Diesel and TS-1 Fuel.
- Diesel Fuel: Diesel Fuel (EN590) and
blends of the above listed Jet Fuel grades:
see CAUTIONS below.

CAUTION

Additional temperature limitations must be observed if the airplane is operated with Diesel Fuel or blends of Diesel Fuel with JET Fuel.

CAUTION

Limitations for operation in the following countries:
Indonesia, Malaysia: Use of Diesel Fuel is NOT approved.

NOTE

Use only uncontaminated fuel from reliable sources.

2.16 OTHER LIMITATIONS

The following paragraph is amended to read:

2.16.2 FUEL TEMPERATURE

■ JET Fuel grades and blends thereof:

TAE 125-01 engine: from -30 °C to +65 °C
(from -22 °F to +149 °F)

TAE 125-02-99 engine
(MÄM 40-256 carried out) : from -30 °C to +75 °C
(from -22 °F to +167 °F)

■ Diesel Fuel, blends of Jet Fuel grades with Diesel Fuel or unknown fuel blend:

Engine starting fuel temperature: min. -5 °C (+23 °F)
Take-off fuel temperature left: min. +5 °C (+41 °F)

Maximum fuel temperature:
TAE 125-01 engine: +65 °C (+149 °F)
TAE 125-02-99 engine
(MÄM 40-256 carried out): +75°C (+167 °F)