

TEMPORARY REVISION

TR-MÄM-42-545/a

supersedes TR-MÄM-42-545

Use of Fuel Grades, Engine- and Gearbox Oil

- This Temporary Revision TR-MÄM-42-545/a is approved in conjunction with the Mandatory Design Change Advisory MÄM 42-545/a and is valid in conjunction with the latest revision of the DA 42 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 with EASA approval No. 10036672.

Doc. No.	Chapter	Affected Pages
7.01.05-E	2	2-8b, 2-24b, 2-25b, 2-30b

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:

- s) Oil specification : SHELL Helix Ultra 5W-30
SHELL Helix Ultra 5W-40
AEROSHELL Oil Diesel 10W-40
AEROSHELL Oil Diesel Ultra 5W-30

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

- t) 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

2.14 FUEL

The paragraph is amended to read:

Approved fuel grades:

JET Fuel:

JET A-1 (ASTM D 1655),
JET A (ASTM D 1655),
JET Fuel No. 3 (China, GB 6537-2006),
JP-8 (MIL-DTL-83133)
TS-1 (GOST 10227-86) (if MÄM 42-198 is incorporated),
and blends of the above listed Jet Fuel grades.

Diesel Fuel:

Only if MÄM 42-037 is incorporated:

Diesel (EN 590),
and blends of the above listed Jet Fuel grades, and
Diesel.

CAUTION

Limitations for DA 42 registered and/or operated in the following countries:

Indonesia, Malaysia: Use of Diesel Fuel is NOT approved.

CAUTION

If the airplane is operated with Diesel Fuel or a blend of Diesel Fuel with Jet Fuel, the use of the auxiliary tanks, if installed (OÄM 42-056), is not permitted.

CAUTION

Additional temperature limitations must be observed if the airplane is operated with Diesel Fuel or blends of Diesel Fuel with Jet Fuel. Refer to Section 2.16.1.

NOTE

Use only uncontaminated fuel from reliable sources.

	Main Tanks		Auxiliary Tanks (if installed)		Total	
	US gal	liter	US gal	liter	US gal	liter
Total fuel quantity	2 x 26.0	2 x 98.4	2 x 13.7	2 x 52.0	2 x 39.7	2 x 150.4
Usable fuel	2 x 25.0	2 x 94.6	2 x 13.2	2 x 50.0	2 x 38.2	2 x 144.6
Max. permissible difference LH/RH	5.0	18.9				

2.16 OTHER LIMITATIONS

The following paragraph is amended to read:

2.16.1 FUEL TEMPERATURE

■ JET Fuel grades and blends thereof:

from -30 °C to +75 °C (from -22 °F to +167 °F)

NOTE

Operation with Diesel Fuel, or blends of Diesel Fuel with Jet Fuel, is only approved if MÄM 42-037 is incorporated.

Diesel Fuel, Blends of Diesel Fuel with Jet Fuel, or unknown fuel grade:

Engine starting fuel temperature	min. -5 °C (+23 °F)
Take-off fuel temperature	min. +5 °C (+41 °F)
Maximum fuel temperature	+75 °C (+167 °F)