

	REPUBLIC OF SOUTH AFRICA CIVIL AVIATION AUTHORITY	CAA Private Bag x08 Waterkloof 0145
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AIRWORTHINESS

OPERATIONS

EXTENSIONS ON TIME BETWEEN OVERHAUL (TBO): TURBINE ENGINES

- ∆ Indicates changes.
- ∆ This AIC replaces AIC 63∆6 dated 98-03-15.
- Numerous requests are received by the Civil Aviation Authority concerning procedures to be followed when placing an aircraft onto a fleet granted a TBO extension and approved by the Commissioner. The Commissioner has ruled as follows:
 - The procedure for calculating the time remaining to overhaul is determined by the following formula: -

$$x = y \times \frac{a}{b}$$

x = time remaining to overhaul on the new program
y = time remaining to overhaul on the old program
a = new program TBO
b = old program TBO

Example:

An aircraft is transferred to another operator. The means of transfer (sale or lease etc.) does not affect the calculation. The first operator has a TBO of 3000 hours on the engines. The second operator has a TBO of 5000 hours. The engine concerned has been in operation for 2000 hours.

Time remaining to overhaul on old program (y) = 1000 hours
New program TBO (a) = 5000 hours
Old program TBO (b) = 3000 hours

Time remaining to TBO on the new program (x) = $y \times \frac{a}{b}$

$$= 1000 \times \frac{5000}{3000}$$

$$= \underline{1666.67 \text{ hours}}$$

Added to current hours of 2000 gives a permitted TBO of 3666.67 hours.

- ∆ 3. In this case, no extension, will be allowed, as the engine would be considered to be on an established program.

COMMISSIONER FOR CIVIL AVIATION