

TIME IN YOUR TANKS...

Finding the "time in your tanks"...

• Log accurate flight times, power settings and fuel used on each trip.

• Count flight time as startup to shutdown.

• Compute fuel consumption (per hour) after a few flights under similar operating conditions.

Determine usable fuel from pilot's operating handbook (POH).

• Ensure proper conversion for units used: (imp gals to litres; US gals to litres; pounds to litres). Conversion charts can be found in the CFS.

• Your safe flight time limit is:

 $\frac{\text{Usable fuel x 3}}{\text{(Fuel units)/hr}} = \frac{\text{Log}}{\text{x 4}} \text{ hrs (resolve never to fly longer)}$

• In flight, compute fuel used:

 $\frac{\text{(Fuel units)/hr x min flown}}{60} = \underline{\qquad} \text{(fuel units) used}$

• If fuel gauges do not agree with computed (fuel units) used, suspect inaccurate readings or a loose fuel cap.

Fuel management checklist

When computing a safe flight time limit for your flight, consider:

- Trip length
- Cruise altitude
- Engine power settings
- Wind (don't count on forecast tailwinds)
- Regulatory and company fuel reserves

Number of passengers and load

- If <u>actual</u> flight time progress lags behind <u>planned</u> progress you may have to land short of destination
- Use the proper grade of fuel; colour check fuel grade when refuelling; if proper grade unavailable, use the next higher grade. (Always refer to POH)

Draincock check for water and fuel cleanliness

Visually check quantity before startup, preferably using an accurate dipstick

• Know the fuel system—especially the tank selectors

- When selecting fuel tanks don't rely on feel alone—look. Don't reposition fuel tank selectors just before takeoff or landing.
- Get familiar with mixture control...

Mixture control

- A proper mixture control gives:
 - improved engine efficiency
 - fuel economy, and longer range
 - reduced maintenance costs, longer sparkplug life, less fouling
- Use the engine builder's vast experience—consult the POH