

## FUEL AND ENGINE OIL - DESCRIPTION AND OPERATION

### 1. General

- A. This portion of the section on replenishing provides maintenance personnel with servicing procedures on the airplane fuel system and the engine oil system.

### 2. Description

- A. This portion of replenishing section is subdivided into fuel system and engine oil system. A brief description of the system follows.
  - (1) The fuel system servicing procedures include adding fuel, mixing anti-icing additives to the fuel, checking anti-icing concentration in fuel tanks, defueling procedures and purging fuel storage areas.
  - (2) The engine oil system servicing procedures provides information on adding oil to the engine, draining oil from the engine and descriptive information on synthetic turbine engine oil.

### 3. Fuel Precautions

- A. Safety Precautions.
  - (1) The safety precautions on fueling and defueling may be superseded by local directives. However, following is a typical list of precautions.
    - (a) Ground, by designated grounding cables, the fueling and/or defueling vehicle to the airplane. Also, a static ground device shall contact the fueling or defueling vehicle and ground.
    - (b) Fire fighting equipment shall be immediately available.
    - (c) Wear proper clothing.
      - 1 Do not wear clothing that has a tendency to generate static electricity such as nylon or synthetic fabrics.
      - 2 Do not wear metal taps on shoes when working in areas where fuel fumes may accumulate at ground level.
    - (d) The airplane shall be in a designated fuel loading or unloading area.
    - (e) High wattage, pulse transmitting avionics equipment shall not be operated in the immediate vicinity.
- B. Maintenance Precautions.
  - (1) Use designated equipment for fuel loading and unloading to prevent contamination.
  - (2) Use proper procedures when adding fuel inhibitors.
  - (3) Use specified type of fuel.

### 4. Oil Precautions

- A. Maintenance Precautions.
  - (1) Use specified synthetic turbine engine oil.
  - (2) Use servicing procedures; do not overfill, do not mix manufacturers brand of oils.