## **Cessna 152 Specific Questions**

#### What is Vso?

### What is Vs1?

## What is Vr?

## What is Vx?

## What is Vy?

## What is Vglide

## What is Vfe?

#### 85 kts

## What is Va?

#### 104 Kts at 1670 lbs

## What is Vno?

#### 95-100 Kts

### What is Vne?

## What fuel grades are acceptable?

100 LL (color blue)

## What type of engine oil does the 152 use?

#### MIL-L-22851 Ashless dispersant (From POH)

Phillips Victory 20w-50 is the modern equivalent for all temperature ranges.

# What is the minimum engine oil operating quantity?

4 quarts

# What is the maximum engine oil operating quantity?

6 quarts

## What type of brake fluid is used?

#### Mil spec MIL-H 5606 hydraulic fluid (color is red)

### Where is the brake fluid serviced at?

By the rudder pedals in cockpit

## What is the normal landing gear strut extension?

#### 4 inches

### Describe the nose gear.

It is an air/oil oleo strut filled with nitrogen for extension and Mil-H-5606 for shock absorption

### What tire pressure is normal?

#### 21 psi for the mains, 30 psi for the nose

### Describe the engine.

- 1.) Carbureted
- 2.) Normally aspirated
- 3.) Air cooled
- 4.) Horizontally opposed
- 5.) 4-cylinders
- 6.) Lycoming O-235-L2C

### How many magnetos does the Continental 0-235-L2C have?

### How many spark plugs does the Continental 0-235 have?

#### Two spark plugs per cylinder (8 in total)

# Do you need the airplane electrical system to operate the magnetos?

No, the magnetos allow engine operation independent of power from the airplane electrical system.

### How much horsepower does the Continental 0-235 produce?

#### 110 horsepower at 2550 RPM

#### What is the normal fuel burn?

5-6 gallons per hour

# What provides electrical energy to the Cessna 150?

The alternator

#### **Describe the alternator?**

#### 28 V direct current 60 A alternator

# What bus bars does the alternator provide power to?

Primary and avionics bus bars.

### Describe the battery in the Cessna 152

- 1.) 24 V
- 2.) 14 Amp-hour
- 3.) Lead acid
- 4.) Located in the right-side engine compartment

## Describe what a 14 Amp-Hour means in regard to the battery.

- 1.) Will discharge 14 amps for one hour
- 2.) Or 28 amps for 30 mins

### Describe the functions of the battery

- 1.) Absorbs system power strikes
- 2.) Provides power for engine starting
- 3.) Provides power if the alternator fails

## How is an alternator failure/ problem identified?

It is indicated on the AMP meter. Amp meter shows a discharge.

#### What does the AMP meter indicate?

- 1.) Indicated the charging rate applied to the battery
- 2.) Or if the alternator has failed, the battery discharge rate

# What is the function of the circuit breaker and/or fuses?

Circuit breakers protect the electrical system against excessive current draw

# Can you reset a tripped circuit breaker?

You can reset a circuit breaker once, but wait at least two minutes for cooling

### Describe the brake system.

- 1.) Single disc
- 2.) Hydraulically actuated
- 3.) One on each main landing gear

## Where is the brake fluid master cylinder located?

Just forward of the pilot's rudder pedals.

## Describe how the brake system works.

Depressing the brake pedal moves hydraulic fluid from the master cylinder and applies pressure to the wheel calibers and pistons via hydraulic lines.

### How are the flaps operated?

#### Electrically

## How many degrees of flaps are available?

1°-30°

## Why do the ailerons have different travel amounts?

To decrease adverse yaw and ease coordination during normal maneuvers

# What does the pitch trim wheel control?

A single trim tab on the elevator

# What is the total capacity of the fuel system?

26 gallons (13 in each tank)

### How much does 100LL weigh?

6 pounds per gallon

## How many fuel sumps does your airplane have?

#### Four

### Where are the fuel sumps located?

One under each wing, one activated by a lever near the oil dip stick, and one under the belly. The belly drain is an STC add on.

### What drives the vacuum pump?

The engine

# How much suction does the vacuum pump create?

#### 5 inches of Hg

### What does the vacuum system do?

#### Provides vacuum to drive the air driven instruments

## What are the vacuum pump, air driven instruments?

Attitude indicator and directional gyro

## Where should the airworthiness certificate be located?

Must be visible when entering the airplane.

By left hand brake pedals.

### What is the usable fuel amount?

24.5 gallons total