



Composite FX

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Points of conversation with Alan Heard pilot of MXE1036 on 5/4/18.

Fuel was 4 months old 91 octane he mixed a 50/50 mix with fresh 90 octane from local station.

Monday April 24th 2018- After installing a Power Commander Auto Tuner AT200 he set the AFR # (air fuel ration) to 13 and a tuning span of 20 points.

After test flying noted that the EGT's where reading 1050 degrees F and decided to change the AFR number to 13.5 based on information he received from the internet.

Test flew again for approximately 35 minutes and noted the EGT's had settled at 1100 degrees F considering this good based on info received from the internet he did not look at or accept the recommended trims produced by the Auto Tuner.

Tuesday April 25th 2018- Running the same fuel Tuesday morning hovered machine for a few minutes and proceeded to depart airport. At approximately 100 foot of altitude and 40 to 45 mph forward speed the pilot experienced a bang or pop with a partial loss of power. Still having engine power he decided to land with partial power available and not commit to an emergency auto-rotation. A few seconds later he experienced a second bang or pop and felt he had a total loss of power being to low to commit to a emergency auto-rotation with low rotor rpm the aircraft made impact nose first being destroyed in fire after impact.

Points of interest:

- 1) Eye witness heard bangs or pops and seen objects being ejected from the aircraft also told the pilot after helping in rescuing him he seen fire after the noises.
- 2) Witness also said he heard grinding sound after the initial noise.
- 3) Recommended AFR initial setting by Power Commander is 14.7.
- 4) Internet information collected by the pilot was based off of numbers collected by motorcycle users or this product.
- 5) Based on information collected street motorcycles require 15-20 HP. at cruise depending on the gross weight of the machine and weather conditions. Based on our own engineering the Mosquito XE285 Helicopter will require 50-55 HP. at a cruise speed of 80 mph depending on gross weight of the helicopter and weather conditions.