

June 02, 2015

Marvel-Schebler Aircraft Carburetors LLC. has completed an inspection of carburetor model MA-4SPA, part number: 10-5135, serial number :CK713445. This inspection was done on May 26, 2015; at the request of Allison Diaz of the NTSB. The inspection was witnessed by Jerry Toms, Greensboro NC FSDO. The results are as follows.

Upon initial fuel flow analysis, the carburetor's fuel flow was high and would not conform to an acceptable, testable limit. Jerry Toms allowed MSA to open the carburetor, adjust the float position using the recommended M-510 float clearance tool and reassemble the carburetor into a testable condition.

The fuel flow results provided are from the after the float adjustment.

As compared to the master carburetor for this model, the performance of carburetor: 10-5135, serial number: CK713445, was rich beyond MSA's acceptable limit. This evaluation does not include idle, as the final determination for this setting is in the field.

At the first power setting the unit is nominally 12.1% more rich than the master unit, 7.5% more rich than the flow of the master unit is the maximum permitted at this setting.

The second setting is nominally 10.7% more rich than the master unit, nominally 7.4% more rich than the flow of the master unit is the maximum permitted at this setting.

The third power setting nominally is 6.3% more rich than the master carburetor, nominally 1.4% more rich than the flow of the master carburetor is the maximum permitted at this setting.

The full throttle power setting is nominally 9.3% more rich than the master carburetor, nominally 2.5% more rich than the flow of the master carburetor is the maximum permitted at this setting.

Carburetor serial number CK713445 was returned to Jerry Toms.

Please feel free to contact me for any further assistance,

Mark Keeney

for

Marvel-Schebler Aircraft Carburetors LLC.