



# An overview to the aviation green biofuel approval route within ASTM D7566

Christian Williams

Kawasaki, UK

## ABSTRACT

Almost every sector globally has been continuously improving their commitment to the environment and reduction in CO<sub>2</sub> emissions. The aviation industry has understandably limited options to a degree due to its build and hence ability to easily reduce its CO<sub>2</sub> emissions. All indications are that the aviation industry will continue to grow based on virtually every statistical dynamic and measurement. Due to limited mechanical options the aviation industry has been focused at reduction in CO<sub>2</sub> emission commitments through the supply chain and its fuel use with a movement over to green biofuels and the carbon trading program. Many aviation customers, airports and even countries have publicly stated a commitment to green biofuels with some stating possible 100% movement over the next 10 years. Within ASTM D7566 you have a system of technical assessment and substantial testing requirement that all manufacturers of biofuels need to enter into for approval and use within the aviation industry. The study overviews the current approved aviation biofuel process, the fundamental fuel chemistry and fuel quality of biofuels and the challenges that could potentially face the industry when moving over to a large scale production of biofuels and use.

## Biography

Christian Williams has pursued BSc with honors in Organic and Analytical Chemistry at the University of Glamorgan in Wales,

UK. He started his career as a Bench Chemist and working his way to senior management and consultancy roles for some of the most respected corporations globally.