

HELICOPTERS

Jet fuel microbial contamination can be extremely costly for operators of civilian or military helicopters. Identify and deal with the issue at earliest possible stage

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EVELSTA BISSING PUS

TRIED. TESTED. TRUSTED.

FUELSTAT® provides simple rapid detection of microbial contamination in jet fuel with free digital app to verify results and capture data



Avoiding unscheduled Aircraft on Ground (AOG) can be very good for business and reputation

Traditionally, jet fuel testing methods have depended on fuel samples being sent to a specialist laboratory for analysis. The next step is a waiting period of up to 4-7 days, or longer to get the results.

Sending the fuel samples to the lab isn't simple. ASTM D6469 highlights that if a sample is to be tested for microbial contamination and cannot be tested on-site, it should be transported on ice and tested within 24hrs or the sample may no longer be a true representation of the environment from which it came. Delays may cause varying results which may cause an increased risk to your asset and require unscheduled maintenance downtime to remove the contamination.

- Why take the risk?...
- Why wait 4-7 days for a test report?

Applying an additive like biocide on a regular basis is another solution commonly used in aviation to prevent microbial contamination. The risk is that a fresh contamination starts before the next scheduled application of biocide and grows rapidly and that the contamination micro-organisms develop resistance from regular exposure to biocide, much as a human does with antibiotics.

- Is the cost and effort of applying additives regularly justified?
- Would fast on-site testing be a more efficient option?

FUELSTAT® SOLUTION TEST. RESULT. REPORT within 15 minutes



JET FUEL MANAGEMENT

FUELSTAT® Microbial

Contamination Detection: A modern solution for all aspects of managing fuel. All contamination can impact the quality of aviation jet fuel; microbial contamination is the most troublesome.

- Does your fuel contain dangerous levels of microbial contamination?
- FUELSTAT® can quickly help you find out!

FUELSTAT® uses antibody technology as against more traditional growth techniques. It works equally well testing fuel only as well as water in fuel, only searches for the markers of microbial contamination so risk of false high results are reduced, is simple with no previous experience in testing required, and very fast with results from start to finish in less than 15 minutes. It also comes with a free data capture app FUELSTAT® Result.

Field-based microbial fuel testing for all helicopter operators

The very nature of both civil or military operations is such that activities are often carried out where time really is a matter of life or death. As such, can one really wait several days to identify whether their asset is at its optimum level, or potentially at risk of failure? The answer is, of course no.

FUELSTAT® test kits have no special handling, transportation, storage or disposal requirements and are safe to be carried and administered in the real life conditions of most operations, at a time when needed most.

- FUELSTAT®, taking only a few moments of labour to complete and interpret, is very cost effective
- FUELSTAT® helps the operator determine the condition of fuel tanks based on knowledge, not guesswork, helping reduce risk of unexpected downtime
- FUELSTAT® helps operator make informed decision regarding the need for treatment with biocide, so that treatment is only carried out when necessary, reducing cost, downtime and overuse considerations
- For military operators FUELSTAT® test kits have a NATO stock number 4940-99-615-6295



MICROBIAL CONTAMINATION IN JET FUEL

What is aviation fuel microbial contamination, why is it so costly and vital to identify?

Fuel microbial contamination is caused by microbes: tiny organisms such as bacteria, yeasts and fungi, which thrive wherever there is food and water. Aviation fuel systems are ideal habitats for these organisms. Not only are these systems often warm and humid, but they also provide food for microbes in the form of hydrocarbons that are in the fuel.

If these microbes (also known as 'bugs') are allowed to proliferate unchecked, they can block fuel filters and cause fuel gauging problems. In fact, they can even induce corrosion to such extent that they can damage the fuel tank structure.

- Blocked filters
- Fuel Quantity Indication Probes
- Corrosion and tank leakage

Solo Working: FUELSTAT® makes the new normal easier

FUEL

MICROORGANISM

WATER

1. Test kit comes complete in sealed pouch

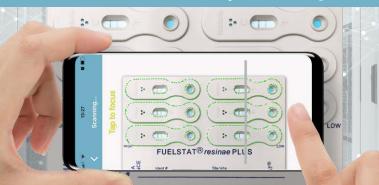
2. Watch training videos on smartphone



3. Do test, wait 10 minutes and get results

LIFTS TH BEIRGE

4. Transmit result to anywhere in globe





THE SOLUTION IS AS SIMPLE AS 1-2-3 FUELSTAT® PLUS

- The ultra-simple test that just requires
 4 drops of sample
- 15 minutes to result as opposed to 4-7 days!
- 'Test at the tank' technology no laboratory required
- No requirement for additional equipment or sterility measures

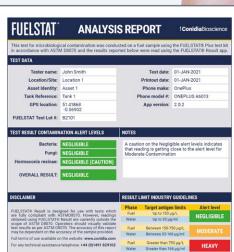
In critical times, you need a fast, convenient testing method - one that doesn't require multiple people to complete the process. Using FUELSTAT®, a single person can conduct tests at the tank after minimal training from our instructional videos. FUELSTAT® is based on immunoassay antibody tests. Just as a pregnancy test searches only for markers of human chorionic gonadotropin, FUELSTAT® only searches for the markers of bacteria and fungi that can grow in jet and diesel fuel and can potentially cause both operational downtime, corrosion and in worse case safety issues.

FUELSTAT® RESULT



- The easy to use app that gives *immediate visual* verification of result
- Reduces risk of misinterpretation
- No need for additional equipment other than a smartphone
- Fully **detailed report** can be instantly produced in PDF format







FUELSTAT



FUELSTAT®

Who we are:

FUELSTAT® fuel tests are developed, manufactured and marketed by Conidia Bioscience Ltd. Based in UK, Conidia Bioscience was founded in the early 2000's by experts in immunoassay techniques and holds the internationally patented intellectual property for FUELSTAT®.

Where to find us:

FUELSTAT® is distributed globally by a network of specialist distributors covering the major sectors. To arrange for a distributor to support you simply contact info@conidia.com.



FUELSTAT® complies with ATSM D8070 and ASTM D6469 Standard Guide for Microbial Contamination in Fuels



FUELSTAT® is listed as a recommended product by IATA. Conidia Bioscience is a Strategic Partner with IATA

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