



## Is sending samples to a lab for microbial fuel tests worthwhile or economical?

Traditionally, 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 cause varying results which may cause an

increased risk to you or your customer's asset.

Why take the risk?...

• Why wait 4-7 days for a test report?

## FUELSTAT® SOLUTION TEST. RESULT. REPORT

within 15 minutes

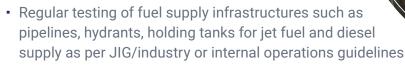




## **FUEL STORAGE & SUPPLY**

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

FUELSTAT® is used across many aspects of the Fuel Supply Chain from refinery to wing in the aviation sectors, or to point of use for marine, transportation and power generation sectors for applications such as:



- Reactive testing of supply infrastructure when microbial contamination is suspected
- Proof of fuel being clear of microbial contamination prior to loading/unloading
- De-fuelling operations on behalf of clients



In an increasingly litigious environment providing chain of custody proof of fuel quality is becoming increasingly important throughout the fuel supply chain, but rapid, on-site microbiological testing using FUELSTAT® can also have several operational benefits:

- Taking only minutes, not days, provides ability for fast remedial action if necessary
- Treat only what needs treating, helping to reduce overall maintenance costs
- Minimise potential of cross contaminating other assets, thus reducing downtime
- Protection of reputation when used at time of fuel hand over





### **MICROBIAL CONTAMINATION IN FUEL**

If you're a user or supplier of jet or diesel fuels, microbial contamination can pose a serious threat to you and your customers.

Once this microbial contamination starts to develop, it can get out of control quickly. The microorganisms produce a thick, slimy material called biomass, which clogs engines and stops them

from working properly. Biomass can also influence metal corrosion, causing permanent damage to tanks and mechanical parts. If left for a prolonged period of time without treatment, it can cause:

- Rejected fuel deliveries
- Corrosion and tank leakage
- Blocked filters
- Customer increased fuel consumption, blocked injectors and Engine failures



# HOW DO YOU MANAGE THE RISKS OF JET AND DIESEL FUEL MICROBIAL CONTAMINATION?

There is no way to completely prevent microbes from entering fuel. These microbes are all around us, in the air and on surfaces, and can enter the fuel in numerous ways once it leaves the refinery. Most importantly, even the well-maintained fuel delivery systems will experience condensation - and when water gets into fuel, microbes do too. If severe microbial contamination is discovered in your fuel, it can be treated with specialist fuel cleansers and biocides. However, this procedure can cost many thousands of dollars and usually requires taking your fuel and generators out of action. To minimise the risks, there are three key activities you need to do:

- 1. Remove water from tanks
- 2. Store fuel correctly
- 3. Test for fuel microbial contamination regularly...



## THE SOLUTION IS AS SIMPLE AS 1-2-3

### **FUELSTAT® PLUS**

- The ultra-simple test that just requires4 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

TRIED.TESTED.TRUSTED.







#### **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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