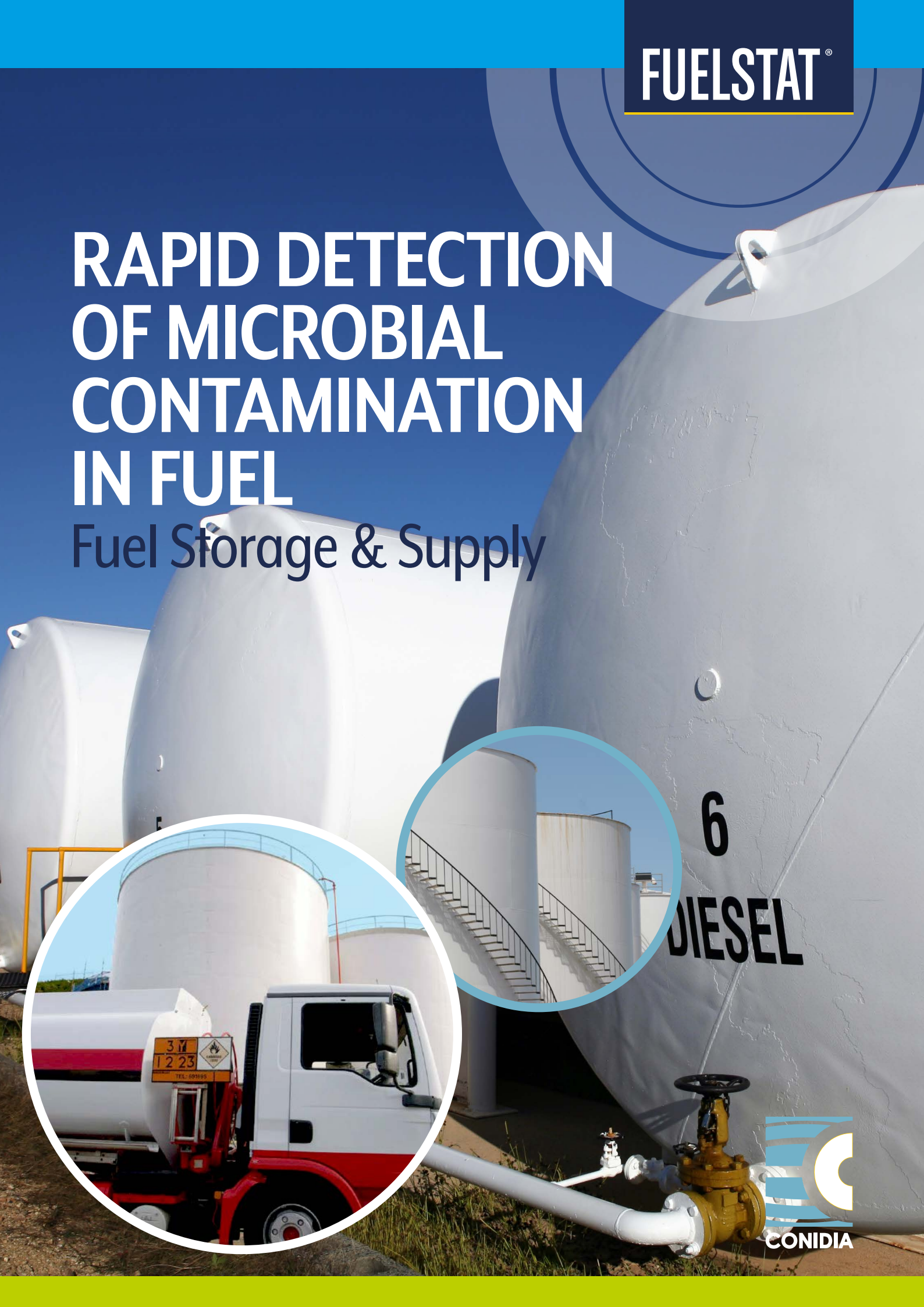


RAPID DETECTION OF MICROBIAL CONTAMINATION IN FUEL

Fuel Storage & Supply



FUELSTAT®

Fuel Storage & Supply Microbial Fuel Contamination

- Does your fuel contain dangerous levels of 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:

- Regular testing of fuel supply infrastructures such as pipelines, hydrants, holding tanks for jet fuel and diesel supply as per JIG/industry or internal operations guidelines
- 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



Simple, Fast, Cost Effective test for Detecting Microbial Contamination in the Fuel Supply Chain

FUELSTAT® offers the fuel supply chain a simple, rapid alternative to sending samples for testing off-site for days or even weeks and gets around the fact that often site conditions are not sterile with the risk of samples getting cross contaminated.

Diesel “bug” microbial contamination creates a slime called a biofilm or biomass that can induce several issues. If left for a prolonged period of time without treatment, it can cause the following issues for you and your customers:

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

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

Traditionally, diesel 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 10 days 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?...
FUELSTAT® solution
Test. Result. Report
within 15 minutes



FUELSTAT®

FUELSTAT® Plus

- Ultra simple test that requires **4 drops** of sample
- **15 minutes** to result as opposed to 4-7 days!

FUELSTAT® is based on immunoassay technology, which is widely used in the medical industry to rapidly and accurately detect such things as pregnancy, prostate cancer and hypoglycaemia. Put simply FUELSTAT® only searches for the specific micro-organisms that are known to thrive and do damage in diesel and jet fuel.

FUELSTAT® is simple to use and learn with little that can go wrong on-site, simply add the sample to the bottle provided with the test kit, shake it, place 4 drops onto a piece of tissue to remove any fuel or particles trapped in the nozzle before adding 4 drops to each of the sample wells on the test paddle and wait 10 minutes for the results to appear. FUELSTAT® requires little instruction and little in way of rigid sterility controls except for a clean sampling jar. The components of the test kit are also recyclable; however, the fuel sample must be disposed of as per each individual organisation's own protocol.



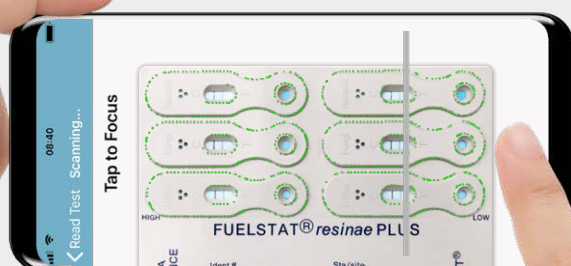
FUELSTAT® Result

- Reduces risk of misinterpretation
- Immediate visual verification of result
- No need for additional equipment other than a smartphone
- Fully detailed report can be instantly produced in PDF format

If you want instant verification of the result which can be sent to or received by Headquarters within minutes, then the free to download app, FUELSTAT® Result, will tell you in seconds on your smartphone device.

FUELSTAT® Result will also enable a fully transparent and traceable audit trail to track trends and hotspots, but also provide accurate information to enable effective and more cost-efficient maintenance programs to be undertaken. It may also assist in identifying assets which are more susceptible to microbial contamination, thus aiding increased risk management, provide greater warranty protection against fuel related issues and more importantly reduce potential downtime of assets

Over 100,000 FUELSTAT® tests are used every year all over the globe in many highly regulated industries to monitor microbial contamination in middle distillate fuels. It is compliant with the ASTM D8070 International Standard and is used by organisations the world over from airlines to major fuel operators, from militaries to data centres to keep assets protected.



FUELSTAT® ANALYSIS REPORT	
Company name: Standard Address Inputted From Portal/Registered User: Engineers Name	
Address: Input from Portal/Registered Address	
Post code: From Portal	Test date: 24-JAN-2019
Country: United Kingdom	GPS location:
Customer reference: 124 - Portal Template	Fuelstat result number: 3,361
	Printout date: 24-JAN-2019
Identity: Example Test	
Asset: Jet 1	Bacteria: Negligible
Tank: Wing	Fungi: Heavy
Fuel lot: 4	Hormoconis resiniae: Negligible
Fuelstat test lot: HR 2 411	Overall result: Heavy
	Test method: ASTM D8070-16
Printout date: 24-JAN-2019	
Data interpretation and guidance	
Phase	Target antigen limits
Fuel	Up to 33 µg/l
Water	Up to 33 µg/l
Fuel	Between 150-750 µg/l
Water	Between 150-750 µg/l
Fuel	Greater than 750 µg/l
Water	Greater than 750 µg/l
Portal version: 1.2.2	
Analysis approved by:	
designed for use with tests which are fully compliant with ASTM D8070-16.	
FUELSTAT® Result is currently outside the scope of ASTM D8070-16.	
Test results as per ASTM D8070-16.	
Dependent on the accuracy of the sample provided.	
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find out more:
www.conidia.com

FUELSTAT®

Who we are:

FUELSTAT® fuel tests are developed, manufactured and marketed by Conidia Bioscience Limited. Based in UK, Conidia Bioscience Limited was founded in 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. Contact info@conidia.com who will arrange for a distributor to support you.



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