

MicrobMonitor²

The quantitative test
for microbes in fuels,
oils and water

Microb Monitor

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What is the test used for?

To identify and detect all types of microbial contamination in petroleum products in storage, distribution and use including:

- Aviation, automotive, power and marine fuel
- Biofuel, heavy fuel and crude oil
- Lubricants and hydraulic oil

It can also detect microbes in water or any other fluid.

Why test for microbes in fuel?

Microbial contamination has caused aircraft to abort take off, ships to be taken out of service and power generators to fail. Untreated contamination can:

- Restrict the flow of fuel and oils by blocking filters and pipes
- Corrode tanks and bearings
- Degrade fuel and oil quality

Regular testing for microbes together with a good treatment and maintenance regime can:

- Improve asset performance
- Reduce operational risks

What is the test?

A sample is placed into a glass bottle containing a gel formulated to grow microbes associated with fuel and oil spoilage.

The number of colony forming units (CFU) or groups that grow in the bottle indicates the severity of the contamination.

Five **MicrobMonitor²** bottles with sterile devices for measuring and dispensing samples are included in a single box .



Who can use the test?

ANYONE - no special skills or equipment are needed, full instructions are provided.

Is the test reliable?

MicrobMonitor² was developed originally for use in the aviation industry for testing jet fuel and is recommended by IATA. Since its introduction over 8 years ago, **MicrobMonitor²** has become established as a globally recognised standard for on-site monitoring of microbes in fuel and oils.

- Listed by Boeing, Airbus, BAE Systems and other OEMs in their Maintenance Manuals
- Used regularly by major users and suppliers of fuels such as Lufthansa, KLM, BP and ExxonMobil
- Used in marine, offshore, power and industrial sectors
- Recommended for military use and NATO codified
- Comparable with IP 385 and ASTM 6974-03 test methods



Why use MicrobMonitor²?

- Works with any petroleum product and associated water
- Quick and easy to use on-site or in the laboratory; more economic than standard laboratory tests
- Detects low level contamination for an early warning of potential problems
- Indicates the severity of any infection not just the presence of microbes as with “go, no-go” tests
- Monitors trends of contamination
- Determines when IATA contamination limits are exceeded and remedial measures are needed
- Contamination limits and detection levels can be user defined for specific facilities and operations
- Unaffected by biocides, DIEGME or other additives; quickly assesses the effectiveness of biocide treatments
- Detects active moulds (including *Hormoconis resinae*), yeasts and bacteria

What about support?

The test is supplied and supported by ECHA Microbiology Ltd, a world leader in providing solutions for microbial contamination in fuels and oils. ECHA provides consultancy, training and laboratory services to support their tests and gives assistance with interpreting results and developing solutions.