

Cat Fines, primarily chemical aluminum and silicon compounds, are catalysts, which are used to optimize the cracking process in the refineries for the production of petrol and other fuels.

Although useful for the fuel production Cat Fines are extremely abrasive and have to be removed from the oil residues after the refining process to avoid severe damages to the engines running with residual fuel oil.

Econ Cat Fines Test Kit - economic go / no go indicator

As a means of self-preservation, vessels collect representative fuel samples during bunkering and then send them off for laboratory analysis. However, the test results often only become available once the vessel is already sailing again, by which time the fuel might be in use already and significant engine damage may already be in progress.

The new **Econ Cat Fines Test Kit** has been specifically designed to provide the crew with a clear sail or don't sail indication with regards to fuel quality.

The **Econ Cat Fines Test** can indicate HFO samples that are contaminated with dangerous levels of cat fines even before the fuel has even been pumped aboard. The test can be completed within a few minutes, is cost effective and is simple to perform.

Laboratory results show that the new test is capable of identifying those fuel samples that have a cat fines concentration of > 60 ppm (Al + Si), and which therefore exceed the limit recommended by ISO 8217:2012.

It also allows to check roughly if the filters and separators bring out the required amount of cat fines and therefore avoiding damage to the engine.

Electronic Cat Fines II Analyser - accurate high end device

Although the amount of Cat Fines in the bunkered fuel is normally known from the documentation provided by the supplier, the Cat Fines content before the fuel oil separators and consequently before entering the engine is usually unknown.

Due to accumulation of Cat Fines in storage- or day tanks over time the concentration of Cat Fines before separators and consequently before the engines may deviate significantly from the demanded value, especially during rough sea passages.

To measure the actual and current Cat Fines concentration in the fuel on board with a reasonable degree of accuracy has not been possible so far.

With the new **Electronic Cat Fines II Test Kit** you are capable of determining the concentration of catalytic fines in fuel.

The affordable test is easy to perform and the device displays directly the measured values in "ppm" with high accuracy.

Your benefits:

- Revolutionary new system
- Allows multiple tests at different sampling points
- Low costs per test
- Only small fuel sample size needed



Electronic Cat Fines II



Econ Cat Fines



~15 ppm



~40 ppm



~100 ppm

Ordering Information

OTK-CT-11221

Cat Fines II Test Kit

Range: 8 - 70 (140) ppm
Accuracy: +/- 5 ppm (Al)
Test Time: 10 minutes
No. of Tests: 30

OTR-CT-12013

Cat Fines II Reagent Pack (30)

OTR-CT-12010

Vial Cleaner

OTS-CT-13029

Glass Vial Consumables Pack (100)

OTK-CT-11222

Econ Cat Fines Test Kit

Range: 15-200 ppm
Accuracy: +/- 5 ppm (Al)
Test Time: 1 minute
No. of Tests: 30

OTR-CT-12014

Econ Cat Fines Reagent Pack (30)

SAM-CT-70071

500 ml Fuel Oil Sample Bottle Pack