

CMT Cat Fines II Test

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

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

There is not a 100% effective method of filtering the Cat Fines out from the cracking process. For Marine bunker fuel the limit of the Cat Fines concentration is e.g. max. 60 ppm according to ISO 8217: 2012 (latest edition).

On the other hand requirements of the manufacturers of Diesel engines allow for not more than 10 ppm Cat Fines in the fuel before it enters the engine.

Currently the dominant cleaning method for fuel used on board ships or in power plants is a combination of centrifugal separation, filtration and settling.

Separators must be able to separate the majority of water, other relevant impurities and Cat Fines by more than 90% to fulfill the engine manufacturers' requirements.

Although the amount of Cat Fines in the bunkered fuel is mostly 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 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 **CMT 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.

Due to the short test time it is possible to perform several tests in a short period allowing the user of the **CMT Cat Fines II Test Kit** the on-board measurement of Cat Fines in fuel samples at different sample points and different significant "moments" of the engine operation.

Usage of the **CMT Cat Fines II Test Kit** protects the engine (injection pumps and nozzles, cylinder liners, piston and piston rings) against excessive wear caused by Cat Fines and helps you to save money on engine wear parts, maintenance and repairs.



Cat Fines II Test Kit

From the start without expert knowledge everyone is able to use the **CMT Cat Fines II Test Kit**.

- Determine the content of Cat Fines during and after fuel bunkering.
- Evaluation of the efficiency of the fuel treatment plant especially of the effectiveness of the separators, fuel filters and settling tanks.
- Determine the Cat Fines content before injection.

Your Benefits

- Low investment costs
- Revolutionary new system
- No installation required
- Allows multiple tests at different sampling points
- Low costs per test
- Only small fuel sample size needed



Cat Fines II SM Console

Patent

(EP 15177929)

Ordering Information

OTK-CT-11229

Cat Fines II SM Analyser

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 Tubes Consumables Pack (100)