

FCC Hunter

FCC Catalyst Fine Simple Analysis Kit

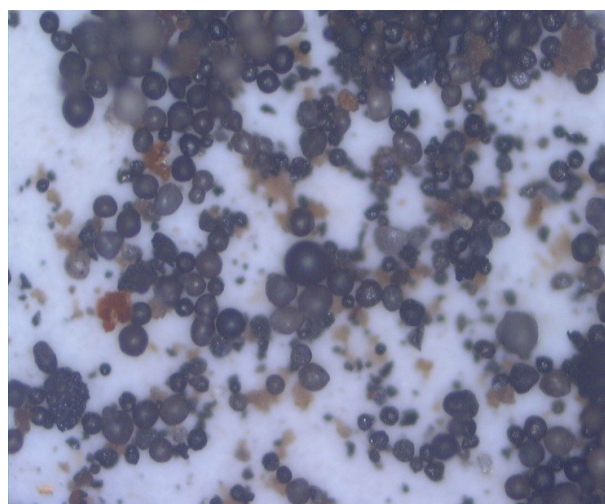
Impurity, FCC catalyst fines in particular, in Marine Fuel Oil cause engine trouble and problems with the operations of vessels. Although measuring FCC catalyst fines onboard was quite difficult before, we are pleased to report that the content and amount of FCC catalyst fines can now be measured with the "FCC Hunter" a simple FCC catalyst fines analysis kit

Composition of the Test kit

- Filtering unit : Filterholder, Filter, etc.
- Microscope : Microscope, object lens for microscope
- Consumables kit : Filter, plastic syringe, solvent etc.



FCC Hunter



FCC catalyst fines in fuel oil

Analysis Method

- A small amount of sample oil is filtered by a filter with a small hole diameter.
The number of FCC catalyst fines with a diameter of 20 micrometers or more is counted.
The content of the FCC catalyst fines is presumed from the number of FCC catalyst fines counted.
- Counting of FCC catalyst fines caught by the filter is carried out by visual observation through a microscope or a photograph of microscopic FCC catalyst fines is taken with a digital camera.

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NIPPON YUKA KOGYO CO., LTD

HEAD OFFICE : 3-9, KAIGAN-DORI, NAKA-KU, YOKOHAMA, 231-0002, JAPAN
KOBE OFFICE : 2-1-18, NAKAMACHI-DORI, CHUO-KU, KOBE, 650-0027, JAPAN

TEL. 045-201-8867 FAX. 045-201-8358
TEL. 078-361-4105 FAX. 078-361-4106

Procedure

- (1) Warm up a sample to around 50– 80 degrees Centigrade to lower the viscosity.
- (2) Set filter to the filter holder correctly shown the following figure.
- (3) The designed amount of sample oil is taken in a 1mL Plastic syringe.
- (4) Set 10mL Plastic syringe to the filter holder and put about 10mL of the solvent in the 10mL Plastic syringe.
- (5) Push the sample out into the 10 mL syringe and shake well until the entire solvent makes good mixture of sample and solvent.
- (6) Attach 10mL syringe to inlet side of filter holder and push out the mixed-solvent slowly.
- (7) Wash the inside of the 10 mL syringe, the filter holder and the filter in the filter holder by the solvent until the solvent which drained out from the filter holder becomes transparent.
- (8) Remove 10mL syringe from the filter holder and drying.
- (9) Open the filter holder and take out the filter carefully.
Check to make sure that the filter is completely dry.
- (10) Observe the filter through a microscope.
- (11) Count the number of FCC catalyst fines with a diameter of 20 micrometers or more.
- (12) The content of FCC catalyst fines is presumed from the number of FCC catalyst fines counted.

