

TURBISCAN OIL SERIES



ASTM
D7061



HEAVY FUEL STABILITY

ASTM D7061 compliant to determine the stability reserve of crude and heavy fuel oil in one click



MULTI APPLICATIONS

Stability, asphaltene dispersant efficiency, water in oil demulsification, compatibility of blends



PORTABLE AND ROBUST

Designed for R&D labs and on-field analysis (<5kg)



THE REFERENCE

Turbiscan technology is the worldwide reference for the colloidal stability analysis

STABILITY ANALYZER FOR CRUDE & FUEL OILS

STABILITY & SIZE

www.formulation.com

Formulation 
Smart scientific analysis

TURBISCAN®, THE REFERENCE

Turbiscan® is used world-wide to detect at an early stage all kinds of destabilization such as coalescence, flocculation, creaming, sedimentation, etc... Turbiscan® Oil Series allows the stability analysis of heavy fuel oil thanks to an innovative method granted ASTM D7061.

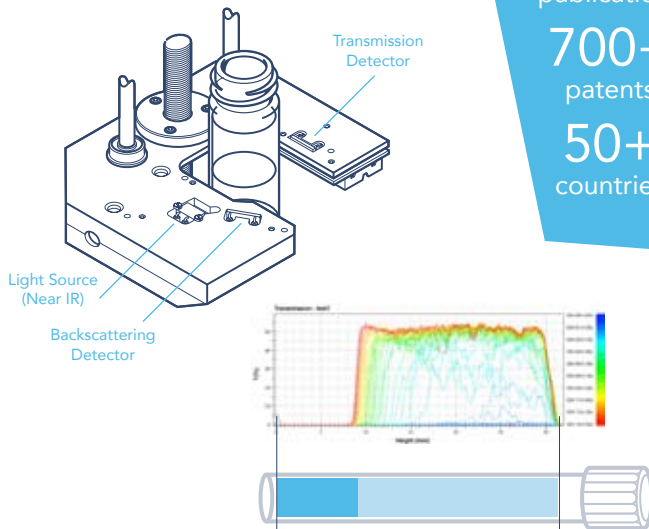


MEASUREMENT PRINCIPLE

2000+ publications

700+ patents

50+ countries



Turbiscan® works on Static Multiple Light Scattering in both Transmission (T) and Backscattering (BS), in order to analyze low and high concentration dispersions. T & BS signals depend on particle size and concentration: **BS & T = f (d / φ)**

The Turbiscan® OIL SERIES acquires T & BS every 20 microns along the sample height. Scans are repeated during ageing time to detect any variation of the signal due to a destabilization, such as particle migration and/or particle size variation.

D7061 ASTM METHOD STABILITY OF HEAVY FUEL OILS

Quick and easy method to determine the stability reserve upon ageing simulation (precipitation of asphaltene in alkane)



KEY BENEFITS

ACCURATE STABILITY ANALYSIS

- Measurement of stability reserve thanks to ageing simulation (precipitation of asphaltene in alkane)
- High repeatability, accuracy and objectivity

FAST STABILITY ANALYSIS

- Up to 200 times faster than naked eye
- Only 15 minutes to determine stability of heavy fuels and crude oils
- One product, One stability, One number

EASY STABILITY ANALYSIS

- State of the art software with 1-click data treatment and report generation
- No calibration, no parameters, simply dilute in toluene and precipitate with heptane
- Robust and portable device to carry on the field if necessary

APPLICATIONS



Oil & Petroleum



Heavy fuel



Crude Oils



Effects of additives



Effects of blending

TECHNICAL SPECIFICATIONS

Cell Volume	7 ml
ASTM D-7061 compliant	•
ISO TR 13097 compliant	•
Quantitative monitoring of dispersion stability	•
Migration velocity & hydrodynamic diameter	•
Size range	10 nm to 1 mm
Concentration range	0.0001 to 60% v/v
Repeatability auto	± 0.1 %
Repeatability manual	± 0.25 %
Temperature control	No
Dimensions (cm)	34x16x29
Weight (kg)	5