TURBISCAN OIL SERIES

ASTM D7061

ASTM INTERNATIONAL Standards Worldwide

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 colloïdal stability analysis

STABILITY ANALYZER FOR CRUDE & FUEL OILS

STABILITY & SIZE

www.formulaction.com

BLG KİMYA TEKNOLOJİLERİ

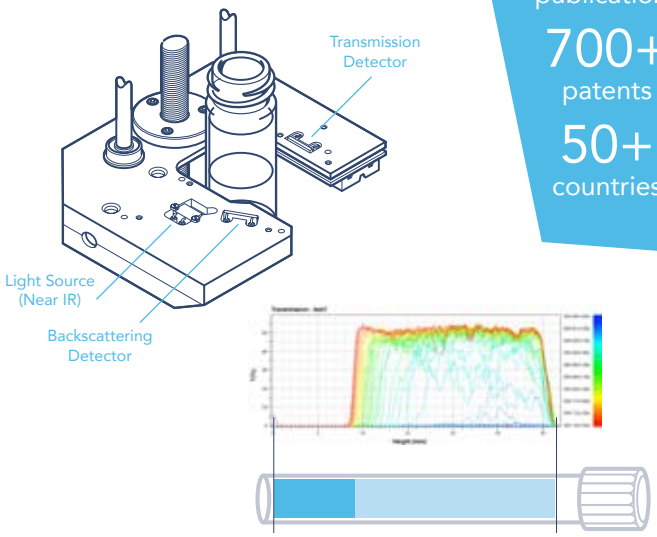
Formulaction Smart scientific analysis

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.

ASTM INTERNATIONAL
Standards Worldwide

MEASUREMENT **PRINCIPLE**



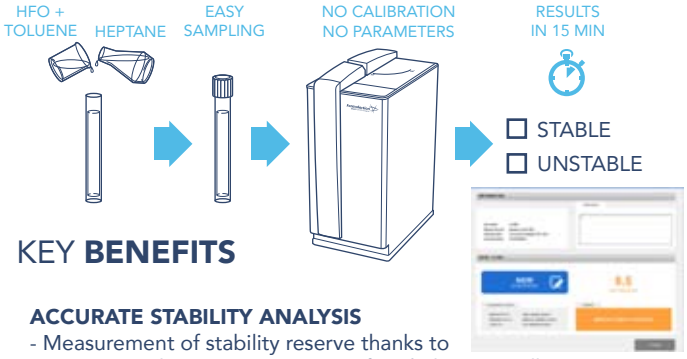
2000+ publications
700+ patents
50+ countries

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 asphalten in alkane)



KEY **BENEFITS**

ACCURATE STABILITY ANALYSIS
- Measurement of stability reserve thanks to ageing simulation (precipitation of asphaltenes 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

APPLI**CATIONS**


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

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