Porla

Asphaltene Content in Heavy & Crude Oils

ASTM D7112

The Porla analyser is a result of co-development with a major Finnish oil refining company, as well as many other refineries and industry professionals. It complies fully with ASTM standard D7112. The analyser is used for blending optimisation in crudes, feed stocks, heavy oils and bitumen as well as the maximisation of oil refining process profitability.

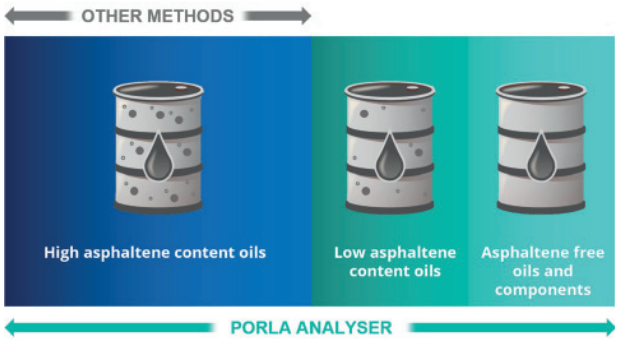
As an important part of the Auramarine portfolio the product is further developed together with clients, resulting in enhanced reliability, easier user experience and full customer support.

Auramarine provides the solution

Auramarine's Porla analyser is an easy, reliable and fast analysis instrument that improves profitability of refinery processes by enabling refineries to select more economic mixtures of crude oils with no risk of fouling problems. The fast, automated, analysis cycle saves working time and increases testing process productivity. Auramarine's Porla analyser enables prediction of compatible blending ratios between different oils by measuring their blending compatibility parameters. Blending parameters can be measured even for an oil that contains no asphaltenes. Unlike other comparable analysers, Porla analyser is capable of measuring stability and compatibility parameters of oils that have a very low asphaltene content (down to 0.05 %).

Very often also oils with low asphaltene content are subject to stability and compatibility issues which can cause clogging and result in severe problems in use.

The analyser is suitable also for high asphaltene content fuels analysis.



Advantages

- Requires only a few minutes of active operator time, test results in 45-90 minutes
- More accurate than manual methods
- No removal of coke particles by filtration required prior to analysis
- Accurate tool for optimisation of visbreaker and hydrocracker processes
- Enables refineries to select more economic mixtures of crude oils with minimised risk of fouling problems
- Determines full set of stability and compatibility parameters (FRmax, Xmin, P, Pa, Po, FR5/1, TE, In and Sbn) by one run
- Reporting also ExxonMobil heavy and crude oil blending model parameters In (insolubility number) and Sbn (solubility blending number)
- Capable of analysing stability and compatibility parameters of low asphaltene content oils
- Offers a unique method to analyse compatibility parameters of asphaltene-free oils