



# Fuel identification INLINE FUEL QUALITY CONTROL

In terminals, there are several reasons an anomaly can happen during a transfer: wrongly lining up of equipment, residue in equipment used for transfers, fraud/pilferage.

## 1. Application

Quality control at terminals is a tedious job which can cause serious delays and face environmental challenges. Typically, a sample is taken using an open sampling system. The sample is then sent to a laboratory, and quality results can take hours to receive. Any anomalies prior to or during the transfer (such as contamination, water, etc.) can only be detected after the laboratory results are obtained. Resolving an incorrect transfer is often a job that takes time, which can cause delays for day-to-day operations and affect the pull-through at terminals. This can involve considerable costs.

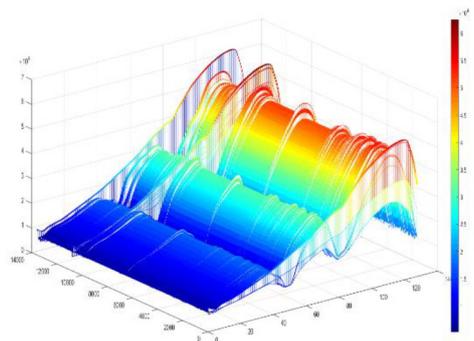
## 2. Used Technology

The Q\Platform is an in-line monitoring system that measures the quality of fuel during storage and transshipment, in real-time and continuously. The platform is suitable for all conventional fuels (Gasoline, Diesel, Kerosine and Bio-components). It classifies the passing products and detects contamination with another product or water.

		CONTAMINENT						
		Petrol EN228	JET A1-3	Diesel EN590	Fame	Ethanol	Water	Other
FUEL	Petrol EN228							
	JET A1-3							
	Diesel EN590							

NIR spectra have chemical information relating to the properties of fuels. E.g. aromatics and density can easily be identified by the height and the shape of the measured spectra, the product DNA. With a library of different liquids, the Q\Platform can instantly determine what liquid is running through the measurement cell. The liquid passing through can be classified in milliseconds. Based on the unique DNA profile of the contamination, contaminants can be classified above 1%.

Because the fuel classification is carried out on the unique product DNA with multi properties, the result is much more reliable than identification with other solutions by single property measurement such as colour, density, refractometer, etc.



## 3. Key Benefits Q\platform

- › Continuous analysis of the fuel
- › Real-time reporting via a stand-alone dashboard or integration in DCS
- › Immediate intervention possible
- › Non-invasive and scalable
- › No need for calibration
- › ATEX-certified and IECEx-approved