RTD DTI Trekscan

RTD DTI Trekscan is the first free-floating pipeline in-line inspection tool designed to traverse back-to-back one-dimensional (1D) bends, with an optimum speed of one-metre-per-second (2.2 mph). It can run in pipelines previously considered to be 'unpiggable'. The bi-directional tool measures the return echoes of a transmitted ultrasound beam. The amount of time it takes to receive an echo provides highly accurate information on the remaining wall and enables the detection, characterisation and sizing of metal-loss anomalies. Using the latest ultrasonic technology and high-density transducer-carrier design, most refined petroleum products, water and crude oils can be used as a medium to run this tool.

Target customers

Trekscan has been designed for use in a range of pipeline infrastructure, including but not limited to:

- Compressor and pump-station interconnects
- Tank farm and interconnect lines
- Gathering and distribution lines
- New construction baselines
- Pipelines with no as-builts or drawings
- Product and fuel/dock lines
- Terminal storage lines
- Upstream loading and gathering lines
- Water-distribution lines
- Airport fuel pipelines

It is an ideal tool in the following scenarios:
Key customer benefits

Traditionally, the internal inspection of unpiggable pipelines has often been cost prohibitive or too problematic for effective pipeline-integrity management. The Applus+ RTD DTI Trekscan, our own-developed tool, has addressed these challenges with key design attributes that allow for the successful inline inspection of unpiggable pipelines.

The standard configuration of RTD DTI Trekscan comes in 15cm (6”) and 20cm (8”) sizes. It is also extremely lightweight – 15kg (33 lb) – and its maximum operating temperature is 40°C (104°F). It is untethered and battery operated. The tool can measure wall thicknesses ranging from 2.8mm (0.1”) up to 50mm (2.0”).

The resulting report provides operators with ranked and screened ultrasonic-survey data that will assist them with maintenance planning for the examined pipeline segments.

Through Trekscan, Applus+ RTD can provide:

- Customised in-line inspections
- Ultrasonic crack detection
- Multi-diameter pipeline inspection
- Online data-retention services

We can also provide the following services either as individual packages or combined to provide a total asset integrity management programme:
Applus+ RTD can also call upon extensive in-house expertise and resources for advanced inspection and conventional non-destructive testing, providing a total capability for management of through-life plant integrity.