CUSTOMER SITUATION:
As part of the strategic program to ensure the integrity of its pipelines and assets, Perenco UK required an inline inspection (ILI) of a key pipeline located offshore of England in the North Sea. The 24-inch crude line links the offshore Trent Platform with the Bacton Terminal pipeline. It was necessary that the pipeline inspection comply with all requisite Health, Safety & Environment (HSE) obligations. Perenco selected TDW because of its ability to offer state-of-the-art inspection services as part of their full-scope project management package, which includes planning, preparation and risk assessment.

TDW SOLUTION:
TDW provided Perenco UK with an expert Sales, Customer Service and Project Management team tasked with identifying and responding to the company’s precise needs. Following a series of site visits and planning sessions, TDW formulated a custom solution that included: progressive pigging, KALIPER® 360 geometry inspection, 24-inch gas magnetic flux leakage (GMFL) inspection, ILI reporting, fitness-for-purpose, run comparison and corrosion growth analysis reports. Support and equipment were supplied by TDW from its facility in Swindon, England.

During the offshore phase, TDW was undeterred by relentless high winds, driving rain, sleet and snow, with the project reaching completion in just 23 days. The ILI run, from launch to trap, was achieved in less than 21 hours. While the tool displaced approximately 100 tons of liquid from the line, no metallic components were brought in and only a small quantity of viscous black residue was produced. The gauge plate showed no signs of any deflection at any point around its circumference. Due to elevated post-run benzene levels, the tool was left by the trap overnight to allow for dispersion. Final examination of the tool showed that the polyurethane components were found to be in good condition, with minimal wear to the cups.

CUSTOMER BENEFIT:
Regardless of inclement weather, the operation was carried out as planned. Perenco UK was pleased with TDW’s ability to successfully complete the total project, despite the challenges imposed by the North Sea. Perenco UK stated that as a result of TDW’s project management services, inline inspection dataset and reporting expertise, a more streamlined and efficient solution was provided to the company. TDW was able to provide the integrity assurance that is critical to Perenco UK and its partners.