

UNDERWATER THICKNESS MEASUREMENT

UK-BASED, TRITEX NDT has launched a new multiple echo ultrasonic thickness gauge for checking steel thickness underwater. The Multigaugage 3000 has been designed for simplicity of use and accuracy. It uses multiple echoes to completely ignore coatings up to 6mm on sub-sea pipelines, bridges, piers, pilings, ship's hulls and applications associated with the offshore industry.

It is extremely robust and durable to withstand the harsh environments that exist in the offshore and underwater industries worldwide. The Multigaugage 3000 has a large bright LED display for poor visibility conditions and has been developed with Intelligent Probe Recognition (IPR) which automatically adjusts settings in the gauge to ensure a perfect

probe/gauge match for enhanced performance. It also has Automatic Measurement Verification System (AMVS) and Coating plus+ to ignore thick coatings up to 20mm thick, all as standard.

The gauge is supplied as a complete kit in a Peli case with all the necessary accessories to use straight away, and comes with a three-year warranty.

www.tritexndt.com



TRITON EVO, SEWAGE TREATMENT PLANT

ENVIRONMENTAL PROTECTION Engineering SA, of Greece, has received both the EC Marine Equipment Directive (Wheelmark) from the UK Maritime and Coastguard Agency (MCA) and Type Approval certification from Lloyd's Register (LR) for its sewage treatment plant. The newly-developed sewage treatment plant TRITON EVO has been tested according to the recently adopted IMO guidelines MEPC.159(55).

IMO's MEPC adopted

revised guidelines on effluent standards and performance tests for sewage treatment plant in October 2006. These new MEPC.159(55) guidelines will supersede the existing MEPC.2(VI) guidelines adopted in 1976, and specify tougher standards for all effluent quality parameters. They come into force from the 1st January 2010.

Environmental Protection Engineering has been testing a pilot unit for over a year. As part of the EC type examination module B certification

KITTIWAKE LAUNCHES LINERSCAN

MARINE TECHNOLOGY specialist Kittiwake has introduced LinerSCAN, the world's first real-time alarm system for engine liner wear. The ground breaking technology provides a real-time early warning system to guard against scuffing, liner wear and catalyst fines, all potential sources of engine failure.

'Monitoring engine liner wear is critical to the health and performance of any modern vessel,' says Paul Froome, Kittiwake's Marketing Manager. 'With LinerSCAN, operators and engineers now have a first line of defence. The system can alert them to possible sources of danger, in real-time, allowing them to act at the earliest opportunity.' The system uses Kittiwake's own ANALEXrs Total Ferrous Sensor technology, and includes sophisticated reporting software to generate highly accurate data, providing engineers with real-time information on liner condition wherever and whenever it is required.

Tackling engine liner problems before they undermine vessel performance can mean potentially huge cost savings, a vital consideration for owners and operators. 'There is a reported increase

in harmful CAT fines as a result of the blending process,' Froome adds. 'The average cost for cylinder oil on a vessel is more than US\$4M and a single liner failure can cost hundreds of thousands of dollars in parts, repairs and off-hire costs.'

As well as allowing engineers to detect and repair engine problems before they deteriorate, LinerSCAN has other benefits including:

- ▶ Reducing cylinder oil feed rate to the optimum level, thereby reducing the cost and potential problems from liner lacquering or bore polishing due to over dosage of the cylinder oil
- ▶ Picking up the ingress of fuel CAT fines in real-time, allowing preventative measures to be taken before extreme wear of engine liners is realised
- ▶ Allowing real-time plotting of cylinder liner bed-in, so action can be taken, such as increasing lubrication if problems occur.

The ultra compact unit fits easily with existing equipment, requiring minimal storage space and can be installed and commissioned in a matter of hours.

www.kittiwake.com

procedure, Hellenic Lloyd's Register oversaw the land based prototype tests for a period of 10 months.

The system makes use of the Membrane Bioreactor (MBR) technology which ensures stable and high performance operation. The quality of the effluent meets even the toughest criteria.

The second generation of sewage treatment units by Environmental Protection Engineering SA is now ready to serve the marine industry

and the marine environment, too.

The 20 years experience of EPE on the design, construction and servicing of the TRITON sewage plant-last generation sewage treatment plant makes it a key player in the sewage treatment plant field and makes it confident to serve the whole range of the shipping industry, from small passenger, cargo and military vessels to large cruise liners.

www.epe.gr