

Omni Energy Inspection Services

Providing high quality technical inspection services to the oil & gas industry



LIFTING INSPECTION SERVICE | NDT & TUBULAR INSPECTION | ROPE ACCESS INSPECTION & INSTALLATION SERVICE



DYE PENETRATE TESTING

MAGNETIC PARTICLE TESTING

EDDY CURRENT TESTING

THICKNESS GAUGING

WELDING INSPECTION

HEAVY LIFTING SUPERVISION

ROPE ACCESS INSPECTION

TUBULAR INSPECTION

LIFTING EQUIPMENT INSPECTION

UT SHEAR WAVE

EXECUTIVE SUMMARY:**The Lifting Equipment Inspection :**

Omni is involved in third party inspection services of a wide range of heavy plant, Cranes (Mobile Cranes, Offshore Cranes, Tower Cranes & Crawler Crane) ,a lifting and marine equipment of brands including Demag, Kone, Liebherr, Kato and Tadano to name a few. We carry out lifting equipment inspection services using, Visual Examination, NDT(Non Destructive Testing) Inspection Such as Eddy Current, UT Shear-wave & UT Wall-Thickness Inspection, MPI (Magnetic Particles Inspection) and DPI (Dye Penetrate Testing). This combined with quality engineers, which are all LEEA& NSL body audited, ensures the most highly qualified and reliable inspection and testing services. In addition, the company complies with highly regulated standards such as ISO 9001 & OHSAS 18001 and we are a member at LEEA, DNV & ASNT.

The Rope Access Inspection and Installation:

Omni is involved in third party Inspection, Installation and painting

Rope Access is defined by the use of ropes and specialized hardware as the primary means of access and support for workers.

Rope Access technicians descend, ascend, and traverse ropes for access and work while suspended by a harness or a work seat. The support of the rope should eliminate the likelihood of a fall altogether. Rope Access workers use a back-up fall arrest system in the unlikely failure of their primary means of support. This redundant system is usually achieved by using two ropes - a working line and a safety line.

The Tubular & NDT Inspection :

Service Company Tubes, Threads & Subs are vulnerable to corrosion, cracking, damage and manufacturing flaws.

Our tubular inspection services detect defects and discontinuities before they cause serious damage, assuring smooth operation and reducing financial risks. Our Inspectors are highly qualified from ASNT & VAM.

INSPECTION TECHNIQUES:

- 1- Dye Penetrate Testing:** Dye Penetrate is a method of detecting surface flaws (cracks) using a chemical ink and a developer. The basic principle is to spray the area to be checked with a penetrating ink (Red) which will leech in to any surface defects. This is then cleaned off. A developer (White) is then sprayed over the same area and any residual ink will show through the white indicating the location of any surface defects. The sample or area to be inspected must be clean and free from paint, corrosion or other surface coatings. Can be used on both ferrous and non-ferrous material. The test will only detect surface cracks.



2-Magnetic Particle Testing

A Magnetic ink is sprayed on the prepared surface after it has been sprayed by white contrast and a strong magnetic force applied to the area. Cracks and inclusions will show up in the ink pattern. This technique can be used for slightly deeper and sub-surface defects. It can only be used on ferrous material, where the surface must be free from paint, corrosion and surface coatings. Additionally, an Ultra Violet ink is available allowing inspection in areas of low light.



3-Eddy Current Testing

Eddy Current is only using an electrical field which gives a reading on a screen. The advantage is that little or no surface preparation is required. This technique can be used through paint and on both ferrous and non-ferrous material. As the display is remote it can be used for internal examinations such as threaded holes and pipe work subject to using a suitable probe. Painting / Coating Inspection. This is a discipline to ensure that paint or coatings meet the specification required and they have been applied correctly and under the right conditions.



4-Heavy Lifting Supervision

Heavy Lifting Supervision is carried out by a schedule and responsible officer who oversees the plan and execution of heavy equipment at onshore or offshore environment.



5-Thickness Gauging

Thickness Gauging is used to measure internal corrosion and externally. This allows corrosion checks on equipment such as pressure cylinders, tanks, pipe work and many more. This technique is suitable for checking equipment without having to open or enter the area that requires checking. Again, this can be done without removing the external coating which is very convenient.



6-Welding Inspection

A weld is a fusion of metals. In order to have a qualified weld, it has to be inspected by a certified welding inspection personnel. There are various parameters involved with the welding technology and needs a proper monitoring for which our engineers are certified, highly trained, experienced and qualified.



7-Rope Access Inspection, Painting & Installation

Rope Access services refer to the use of special rope techniques and equipment to provide support to workers. The use of rope access services allow workers to efficiently and economically access places where conventional access is impossible. Omni rope access services are a versatile and safe way to work in positions of height or areas difficult to access.



8- Tubular Inspection

Tubular Inspection service refers to the inspection of tubes, threads, x-over subs etc. to ensure they are clear from flaws, discontinuities & manufacturer's faults through using the Visual Examination, Measurements, MPI & DPI techniques.



9- Lifting Gear & Lifting Appliances Inspection

Lifting Equipment Inspection is well known inspection technique to examine Shackles, Sling, Offshore Containers, Runway Beams, Overhead Cranes, Mobile Cranes, Offshore Cranes, Tower Cranes, Forklift Trucks etc.



10- UT Shear wave

Shear wave testing, also known as angle beam inspection, is an ultrasonic testing technique used primarily for weld inspections.

A probe consisting of an ultrasonic transducer coupled with a plastic or epoxy wedge introduces an ultrasonic beam at an angle into a test area. As the probe is moved back and forth along the area, it can detect discontinuities in the weld based on the reflection and refraction of the ultrasonic beam.



CONTACT US

The success of Omni Energy is attributed to the quality of our products and the dedication of our skilled teams, who work out of our offices in Ghana, Algeria, Cameroon, Congo, Dubai, Ivory Coast and Tanzania.

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