



SPARROWS

## CASE STUDY

# TENGIZCHEV-ROIL BASE INSPECTION SERVICES

Third party inspection minimises risk and ensures that the equipment from all your vendors is certified to the same standard

### **BENEFITS**

Single point of accountability to increase efficiency and minimise risk

Developing and sustaining a safety culture

Maintaining uptime of vendor equipment

Minimising the risk of incidents occurring by inspecting / certifying each item on an annual basis as a minimum



### **CLIENT**

Tengizchevroil (TCO)

### **ASSET**

Tengiz plant

### **LOCATION**

Tengiz, Kazakhstan

## CHALLENGE

TCO's Tengiz plant, which consists of five oil and gas processing trains, employs a large number of vendors on site. With each vendor utilising their own heavy equipment and lifting gear, significant variations in equipment exist on site.

To safeguard the reliability of this equipment, TCO required a dedicated inspection team to undertake the task of ensuring that all TCO and vendor equipment is inspected in accordance with the stated regulations.

TCO has been committed to improving efficiency since they took it over in 1993 and in 2003 they chose Altrad Sparrows to take on their complex inspection challenges.

## SOLUTION

Our onsite operations are managed by a dedicated base supervisor working on a 28/28 rotation. A minimum of 10 Kazak nationals are employed onsite at any one time, with back to back personnel working on a two weeks on, two weeks off rotation.

All our inspection engineers hold the following as standard:

- Lifting Equipment Engineers Association (LEEA) qualified to level 1 and level 2
- MPI and Dye Pen certificates to British standards.

Personnel are trained in accordance with TCO requirements. On site personnel make up consists of:

- 2 x base supervisors (Ex-pat)
- 2 x coordinators / translators (National)
- 2 x senior engineers (National)
- 2 x HSE specialists (National)
- 2 x level 3 engineers (National)
- 1 x level 2 engineer (National)
- 6 x level 1 engineers (National)
- 7 x trainee engineers (National).

The typical turnover of inspections carried annually includes:

- Inspection of TCO and contractors, includes all annual inspections and MPI work for drilling rig contractors on location in Tengiz.
- Annual inspections carried out:  
TCO = 21; contractors = 27
- Forklift inspections carried out:  
TCO = 112; contractors = 145
- Boom truck inspections carried out:  
TCO = 3; contractors = 94
- Crane inspections carried out:  
TCO = 17; contractors = 203
- Man lifts inspections carried out:  
TCO = 22; contractors = 203
- Winch truck inspections carried out:  
contractors = 13 (drilling).

In addition to the inspection services we provide, we also manufacture wire rope slings onsite to meet the demands of TCO and other contractors.

## SUMMARY

- Supply of qualified and competent inspectors
- Inspection and certification services to both TCO and their contractors for all lifting equipment
- Certification management
- Training for end user of lifting equipment
- Incident investigations involving any lifting equipment.

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## DELIVERY ASSURED

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