

# 150 Te knuckle boom crane maintenance

<b>CLIENT</b>	Subsea 7
<b>ASSET</b>	Simar Esperanca construction vessel
<b>LOCATION</b>	Gibraltar
<b>DATE</b>	2016

Specialist support is essential to ensure your cranes are reliable and in peak condition

## BENEFITS

Quick delivery in line with docking schedule

24 hour support throughout docking scope

Cost effective solutions

A solution that provided minimal disruption to other ongoing docking scopes



**DELIVERY ASSURED**

## CHALLENGE

With periodical maintenance due to be carried out Subsea 7 engaged with Sparrows Group to conduct necessary work on their 150 Te knuckle boom crane whilst docked in Gibraltar.

## SOLUTION

We immediately mobilised a specialist squad of six personnel to carry out the following maintenance:

- Spooling of the main winch wire rope
- Replacement of pump stacks (2 x 3 pumps)
- Replacement of two auxiliary winch hydraulic motors
- Replacement of two main winch hydraulic motors
- Refurbishment of the main winch
- Replacement of slewing fasteners
- Replacement of slew drive seals
- Replacement of hoses and pipework
- Replacement of two luffing cylinders
- Replacement of two knuckle cylinders
- Replacement of cab accessories
- Removal and installation of two electric motors
- Crane condition evaluation
- Load test (proof) winch davits
- Load test (proof) 150 Te crane.

## SUMMARY

- Supply of replacement pumps and motors
- Tooling and equipment provision
- Multi-disciplined engineering services
- Rigging and cherry picker services
- Load testing

1.



2.



3.



1.

Pump replacement

2.

Slew fasteners

3.

Cylinder removal

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