

# Hydraulic pipework pressure testing and flushing

ASSET  
LOCATION

Drilling rig  
UK

Hydraulic pressure testing and flushing provides confidence in fluid power equipment cleanliness and maximises performance

## BENEFITS

Management and planning of the entire flushing and pressure testing work scopes

Supply of equipment and manpower to allow successful completion

Certification package allowing verification and traceability of pipework integrity

Ability and capacity to take on additional onshore and offshore work scopes as rig reactivation project progressed



## CHALLENGE

As part of a rig reactivation programme on-board a production platform our client contracted us to carry out pressure testing and flushing of hydraulic pipework in the rig skidding system, weather deck, draw works, derrick, Cuttings Re-injection (CRI) package and Blowout Preventer (BOP) control system. We also carried out the onshore refurbishment of several pieces of drill floor equipment.

## SOLUTION

- Preparation of work packs with pressure testing and flushing procedures, marked-up pipework drawings showing connection details for the flushing loops.
- Supply of flushing skids, filter skids, diaphragm pump skids for oil filling and transfer, particle analysers, pressure test pumps and chart recorders.
- Hydraulic technicians pressure tested, flushed and reinstated pipework, allowing rig hydraulic systems to be reinstated.
- Supplied certification package including pressure test certificates / charts and particle count reports for all hoses and pipework pressure tested and flushed.
- Carried out additional work scopes, including onshore refurbishment of rotary table hydraulic drive system and onshore refurbishment of cherry picker (personnel access basket).

## SUMMARY

- Project management and hydraulic engineering support
- Flushing and pressure-testing equipment
- Competent and experienced hydraulic technicians
- Refurbishment of hydraulic equipment in onshore workshops

### Pressure testing and flushing requirements

System	Test pressure	Inside diameter	System fluid	Required cleanliness
Rig skidding	5000 psi, 8700 psi	½-in, ¾-in	Castrol AWH-32	ISO 15/14/12
Derrick	N/A	½-in, 1-in, 2-in	Castrol AWH-46	ISO 15/14/12
Weather deck PDM, PHM	207, 230, 345 bar	1-in, 1-1/2-in	Castrol AWH-46	ISO 15/14/12
CRI	207, 230, 345 bar	¾-in, 1-in	Castrol AWS-32	ISO 15/14/12
Koomey BOP control system	N/A	½-in, 1-¼-in, 40 mm, 65 mm, 25 mm	Castrol AWH-15	ISO 15/14/12 ISO 17/15/12

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