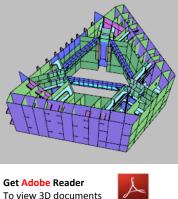


Rig Engineering Case Study 2715



Rig Name: Atlantic Rotterdam Rig Type: Jack-up **Owner name:** Atlantic Oilfield Services **Classification Society:** ABS **Pertinent code:** SNAME Code design: ASD Shipyard: Remontowa in Gdansk (Poland)

Click below to see 3D model!





Stress Plot

R.E. scope of work is to analyze structure of Preload Tank 32 for all loads present during repair works, such as structure self weight and weight of equipment left on platform (e.g. lifeboats, cranes). *The analysis of the structure includes the* following stages:

1. Stress analysis of intact state of Tank No 32' in working condition'.

2. Stress analysis of crop state of Tank No *32 (all access holes for remedial works +all* plate cut outs done at once) in 'working condition'.

3. Stress analysis of crop state of Tank No 32 (all access holes for remedial works + all plate cut outs according to Shipvard sequence) in 'working condition'.

4. Stress analysis of crop state of Tank No 32 (all access holes for remedial works + all plate cut outs according to R.E. modified sequence) in 'working condition', and if required.

5. Stress analysis of crop state of Tank No 32 in 'working condition' for one additional simulation requested by the client.

Engagement Condition

Upload your problem to us and give us relevant input to allow us to resolve your problem, we will need: 1. As built of structure to create 3D FEA

model.

2. Static and environmental loads during repair.

3. Sequence replacement of corroded plates



Atlantic Rotterdam Wasted Steel

Project description: Preparation of stress analysis for No 32 Preload Tank, located on FWD side of 'Atlantic Rotterdam' jack-up unit, was done to reduce amount of time required for replacing corroded sections through the optimization of repair process. No 32 Preload Tank repair has be done on February/March 2011 year in Remontowa Shipyard, Gdansk (Poland)

FEA Model **Results**

Global FEA Model

Photos

Replacement of Corroded Plates



Key word: Atlantic Rotterdam, Atlantic Oilfield Services, jack-up, wasted, corrosion

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