

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Hoisting, Rotation and Pipehandling Equipment**

with type designation(s)

60-1/2" Rotary Support Table -H RST, 60-1/2" Rotary Support Table -2G RST

Issued to

**National Oilwell Varco - Varco BJ B.V.
Etten-Leur, Netherlands**

is found to comply with

DNVGL-OS-E101 – Drilling plant, Edition July 2015**DNVGL-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2015****Application :****See next page.**

This Certificate is valid until .

Issued at **Høvik** on **2016-12-16**DNV GL local station: **Rotterdam**Approval Engineer: **Hallvard Thune Uglane**for **DNV GL**

Per Esvall
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Reference Standards

API Spec. 7K, Drilling Equipment, 6th Edition, 2016

Product description

Rotational support structures for the drillstring on the drillfloor wellcenter.

Application/Limitation

The rotary table equipment is approved for the following particulars:

Area classification: Zone 1

60-1/2" Rotary Support Table -H RST:

- Static/primary load rating: 1375 ton
- Inner Bowl Diameter: 60-1/2"
- Weight, Dry 12725 kg

60-1/2" Rotary Support Table -2G RST:

- Static/primary load rating: 1000 ton
- Inner Bowl Diameter: 60-1/2"
- Weight, Dry 11725 kg

Type Approval documentation

Other conditions and comments

- A full fatigue life inspection of the rotary tables should be carried out after 10 years and every second year thereafter.
- Each rotary table should be surveyed during fabrication in accordance with the requirements for equipment of Category I as defined in DNVGL-OS-E101 Drilling Plant, followed by issuance of Product Certificate Form No. 20.92a.
- Fabrication records are to be maintained in accordance with DNVGL-OS-E101 Ch.3, Sec.3.

Testing

Test Procedures:

1. Each rotary support table is to be tested according to API 7K 6th Edition, 2016 section 8.6.
2. Charpy impact testing in accordance with DNVGL-OS-E101, Ch.2, Sec.2.

NDE Procedures:

3. Non-destructive examination methods, extent and acceptance criteria shall be in accordance with DNVGL-OS-E101, Ch.2, Sec.6, 3.

Welding Procedures:

4. Qualification of welding procedures and qualification of welders shall be in accordance with DNVGL-OS-E101, Ch.2, Sec.6, 2.

Marking of product



Job Id:
Certificate No: **TAD00000J9**

For traceability the following marking is to be carried out on each product:

- Part No.
- Serial No.
- Rated Load capacity
- Manufacturers Name or Mark
- To be marked with International Standard ISO (14693)

Periodical assessment

For retention of the Type Approval, DNV GL Surveyor shall perform a survey – every second year and before the expiry date of this certificate. This is in order to verify that the conditions for the type approval are complied with, ref. DNVGL-CP-0338, DNV GL type approval scheme.

This certificate replaces Type Approval Certificate D-4788.

END OF CERTIFICATE