DNV·GL

Certificate No:
TAD00000JR

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Hoisting, Rotation and Pipehandling Equipment

with type designation(s)
150 Ton TA Center Latch Collar Type Elevator, Min. bore 4 1/4" - Max. bore 9"

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

Application :

Maximum load rating: 1336 kN (150 short ton) Minimum design temp: -20 °C (-4 °F)

This Certificate is valid until **2021-12-15**.

Issued at **Høvik** on **2016-12-16**

for **DNV GL**

DNV GL local station: **Rotterdam**

Approval Engineer: **Hallvard Thune Uglane**

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.

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Job Id:
Certificate No: **TAD00000JR**

Reference Standards

- API Spec 8C, Specification for Drilling and Production Hoisting Equipment (PSL1 and PSL2), 5th Edition April 2012.

Product description

150 Ton TA Center Latch Collar Type Elevator
Part No. 32754 Manual
Part No. 35636 Air Operated
Min.bore 4 1/4" - max.bore 9"

Application/Limitation

Maximum load rating: 1336 kN (150 short ton)
Minimum design temp: -20 °C (-4 °F)
Product Specification Level (PSL): PSL 1 and PSL 2 (order specific)

Type Approval documentation

Tests to be carried out

Test Procedures:

1. Proof load test according to API Spec. 8C, Ch.8.6, to be witnessed by DNV GL.
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.

Other conditions and comments

Each product is to 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. If the intended installation is a DNV GL classed vessel, this automatically means DNV GL product certificate. Fabrication records are to be maintained in accordance with DNVGL-OS-E101 Ch.3, Sec.3.

Marking of product

For traceability and compliance with API Spec 8C, sec. 10, the following marking is to be carried out on each product:

- Part No.
- Bore code.
- Size
- Serial No.
- Rated Load Capacity
- Manufacturers name or mark
- PSL

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 previous type approval certificate no D-4887.

END OF CERTIFICATE