

TYPE APPROVAL CERTIFICATE

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

with type designation(s)

WDLB-B Lifting Beam (SWL 4 mT)**WDLB-A/AB Lifting Beam (SWL 12 mT)**

Issued to

SCHLUMBERGER VECTOR SAS**Abbeville Cedex, France**

is found to comply with

DNVGL-OS-E101 – Drilling plant, Edition July 2015**Application :****See next page.**Issued at **Høvik** on **2018-01-11**This Certificate is valid until **2022-12-11**.DNV GL local station: **Paris Verification**for **DNV GL**Approval Engineer: **Axel Janson**

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.



Job Id: **262.1-009367-5**
Certificate No: **TAD00000VJ**

Reference Standards

- DNVGL-ST-0378, Standard for offshore and platform lifting appliances, May 2016

Product Description

Lifting beams used for lifting wireline winch drum models WDLB-B and WDLB-A/AB.

Application/Limitation

<u>Design Parameter</u>	<u>Value</u>	<u>Equivalent</u>
SWL – WDLB-B:	4 mT	4.4 sT
SWL – WDLB-A/AB:	12 mT	13.2 sT
Max Hydraulic Working Pressure:	207 bar	3000 psi
Min. Design Temperature:	-30 °C	-22 °F
Dynamic Factor Applied:	1.3	

Type Approval Documentation

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Fabrication and Testing Procedures

Test Procedures:

1. Overload test shall be performed in accordance with Ch.2, Sec.2 of DNVGL-OS-E101 Drilling Plant.
2. Charpy testing shall be performed in accordance with Ch.2, Sec.2 of DNVGL-OS-E101 Drilling Plant.

NDE Procedures:

3. NDE/NDT shall be performed in accordance with Ch.2, Sec.6 of DNVGL-OS-E101 Drilling Plant.

Welding Procedures:

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

Marking of Product

Each component shall be marked according to DNVGL-ST-0378, including at least:

- Part No.
- Serial No.
- SWL
- Manufacturers Name or Mark

Other Conditions and Comments

- Materials shall be delivered with 3.1 certificates according to EN10204.
- Each product are to be surveyed during fabrication in accordance with the requirements for equipment of Category I as defined in DNV GL Offshore Standard DNVGL-OS-E101 Drilling Plant, followed by issuance of Product Certificate Form No. 20.92a.
- A Type Approval Assessment Report for this equipment is filed in NPS under 262.1-009367-5-J-42.

Certificate Retention Survey

For retention of this Type Approval Certificate, DNV GL AS's representative shall carry out surveys every second year in accordance with DNV GL Type Approval Scheme DNVGL-CP-0338.

END OF CERTIFICATE