

SURVEY REPORT

**Report No:
N1416XJM**

THIS IS TO ADVISE THAT THE FOLLOWING PRODUCT / MATERIAL:

Product description: **1 off Utility Handling Tool**

Product type: **UHT-1200**

Serial No.: **G9816-D1327-G0001**

Manufactured by: **Harding Safety Czech s.r.o., CZ-27401 Slaný, Czech Republic**
(manufacturer and location)

Manufacturer reference: WZ14-10486 / NOBY150011

Ordered by (customer): **National Oilwell Varco Norway AS, Kristiansand, Norway**

Customer reference: 777842

Intended for: **DNV Id. 33750, ASKELADDEN, Samsung Heavy Industries Co. Ltd., Koje**

HAS BEEN TESTED AS FOLLOWS:

CHECKLIST	W – test witnessed	R – test reports / certificates reviewed
R Welder personnel qualification		W/R Factory acceptance tests
R WPS/WPQR		R Coating
R Material certificates		R Marking
R NDT operators qualification		W Final inspection
R Welding consumables		
R Welding logs		
R Ultrasonic testing		
R Magnetic particle testing		

All testing has been based on (drawing No. / Specification):

**DNV-OS-E101: 10/2009 – Equipment category I.
HLA-4A – Technical Specification for Fabrication, Assembly & Completion of Equipment Packages (rev.9)**

Remarks, pending and non-conforming items are reported on page 2

For purpose of identification the product / material has been marked as follows:

Manufacturer name plates

N.V. N1416XJM

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The inspection was based on the following documents:

- General arrangement drawings: G9816-D1327-G0001
G9816-D1327-G0002
- Hydraulic Flow Diagram: G9816-D1327-H0001
G9816-D1327-H0002
G9816-D1327-H0003
G9816-D1327-H0004

Remarks:

- The material has been delivered with 3.1 certificates acc. to EN 10204.
- All welding was conducted by qualified welders acc. EN 287-1 in compliance with approved welding procedures
- Welding consumable: certificate 2.2 acc. to EN 10204
- NDT was conducted by qualified operators acc. to EN 473, level II. (NDT procedures validated by qualified personnel acc. to EN 473, level III.)
- Visual inspection of welds acc. to EN ISO 5817 Quality level B. / NORSOK M101
- Inspections of welds with method MT (acc. to EN ISO 17638 / NORSOK M101), method UT (acc. to EN ISO 17640 / NORSOK M101), method PT (acc. to ISO 3452-1 / NORSOK M101) and method RT (acc. o EN ISO 17636 / NORSOK M101)
- The quality records documenting the scope and the inspection/testing done are delivered with product in manufacturer dossier.

Factory Acceptance Test

- done according document no. G9816-Z-KA-001, rev.1
- DNV GL witnessed 2015-11-18, satisfactory results (M. Janku)

Pending comment:

- Design verification report (DVR) as required DNV-OS-E101, Ch. 3, Sec.3, 3.1.1 not available !!!

End of Report

In Prague 2016-03-09

Dlouhy, Stepan
Surveyor to DNV GL