

Certificate No: **TAS0000YK**

TYPE APPROVAL CERTIFICATE

This is to certify:		
That the Hook		
with type designation(s) HH000158 HTH 2,5		
Issued to		
H. Henriksen AS TØNSBERG, Norway		
is found to comply with DNV GL standard DNVGL-ST-0378 – Standard for	offshore and platform lifting appliances	
Application:		
Product(s) approved by this certificate is/are acc by DNV GL.	epted for installation on all vessels classed	
Issued at Høvik on 2017-03-14		
This Certificate is valid until 2022-03-13 . DNV GL local station: Sandefjord	for DNV GL	
Approval Engineer: Chi Wan Bang	Aldo Matteucci	
	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.



Form code: TA 251 Revision: 2016-12 www.dnvgl.com Page 1 of 3

Job Id: **262.1-025139-1** Certificate No: **TAS00000YK**

Product description

Equipment type: HH000158 HTH 2,5 Henriksen Towing Hook with quick release

Categorization: offshore

Design dynamic factor (DAF): 1,3

Maximum Safe working load (SWL): 2,5 tonnes Design temperature: -20 degrees Celsius

Operating condition: 0-45 degree upwards relative to the horizontal plane

Application/Limitation

- The towing hook is approved as loose gear according to the aforementioned standard.

- Support and connection to the deck structure are not covered by this approval.

- All materials for load-carrying parts are to be delivered with 3.1 certificates (EN 10204:2004), documenting mechanical properties and chemical composition in accordance with the type approval documentation, and shall comply with Sec.3 from the aforementioned standard.

Type Approval documentation

Drawing No.	Rev.	Title	Status
D000891	15	Engineering Note: Design criteria - Henriksen Painter and Towing Hooks (HPH and HTH series)	For information
D001191	3	System Segment Design Description: 15-4476 Henriksen Tow Hook	For information
D001347		Datasheet - Nastran material bilinear data (ID 4183)	For information
D001509	8	Engineering Report: HTH 2,5T FEM Analysis	For information
D000876	4	First Article Acceptance Test: 15-4476 HTH - Henriksen Towing Hook	For information
HH000158	1	HTH 2,5 Henriksen Towing Hook	For information
HH000158	CD	HTH 2,5 Henriksen Towing Hook	For information
HH010022	1	Main Hook Element HTH 2,5	Type approved
HH020080	Α	Sideplate HTH 2,5	Type approved
HH020081	Α	Sideplate HTH 2,5	Type approved
HH040148	2	Main bolt HTH 2,5 Ø25ø20	Type approved
HH040151	1	Release bolt HTH 2,5	Type approved
HH110445		Main hook stem HTH 2,5	Type approved
M000308	Α	User Manual - HTH (ID 3836)	For information

Tests carried out

First Article Acceptance Test (document number:D000876, Version:4) was carried out on 2016-10-17 and witnessed by DNVGL Sandefjord station with Verification Statement No.:N141BBVY.

In order to obtain a DNVGL Product Certificate, testing is to be carried out according to Sec.14 from the aforementioned standard.

Marking of product

Each towing hook shall be marked according to Sec.12 from the aforementioned standard.

Form code: TA 251 Revision: 2016-12 www.dnvgl.com Page 2 of 3

Job Id: **262.1-025139-1** Certificate No: **TAS00000YK**

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform a survey every second year and before expire date of this certificate to verify that the conditions for the type approval are complied with.

END OF CERTIFICATE

Form code: TA 251 Revision: 2016-12 www.dnvgl.com Page 3 of 3