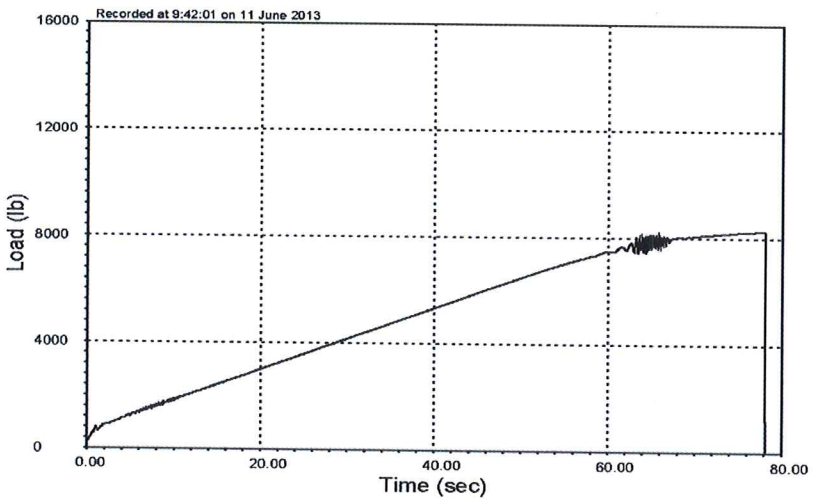
Certificate of Testing

Woods Hole Oceanographic Institution

Mooring Fabrication and Field Support

Woods Hole, MA 02543
Contact: Rick Trask
508 289-2395 rtrask@whoi.edu



Specimen Identifier:	NSF-20-H25
Work Order No.:	13125
Project Name:	Atlantis Wire Break Test
Material Type/Size:	1/4 3 x 19 Wire
Length of Sample:	7m
Termination No. 1:	Compressed Sleeve Termination
Termination No. 2:	Swaged Termination
Operator:	Barbara Callahan
Geometry:	None

Analysis Results

Maximum Load
Load 8280 lb

Break Test Results - Broke at swaged termination. Compressed sleeve termination done by vessel, swaged termination done at WHOI.

Date of Test: 06/11/2013

UNOLS Wire Database

Contact information: unolswirepool@whoi.edu
Wire Pool Manager: Rick Trask 508-289-2395
Database Administrator: Ruthanne Molyneaux 508-289-3530

UNOLS Wire Database

WHOI - Christopher Griner

Ship Reports

Contact list

2011 Release Notes

Logout

Break test on NSF-20-H25 | **View break test** | View this reel |

Break test on NSF-20-H25

Break test location: UNOLS Wire Pool Log test number:
Test operator: Barbara Callahan Work order number: 13125
Test requested by: Barbara Callahan Test date: Jun-11-2013
Date sample received:
Manufacturer's marker tape number (if any):
Manufacturer's nominal breaking load (lbs): 6750.0
Tested breaking load (lbs): 8280
Assigned breaking load (lbs): 6750
Termination 1: CompressedSleeveTermination
Termination 2: SwagedTermination
UNOLS required documents: have not been received
Break test notes: Broke at swaged termination. Compressed sleeve termination done by vessel, swaged termination done by WHOI.

No break test images available View Break Test Report

Subject: Atlantis .25 hydro wire
From: Rick Trask <rtrask@whoi.edu>
Date: 6/13/2013 11:13 AM
To: Christopher Griner <cgriner@whoi.edu>
CC: Albert Suchy <asuchy@whoi.edu>, Barbara Callahan <bcallahan@whoi.edu>

Chris
The sample of 1/4" 3x19 torque balanced wire from reel number NSF-20-H25 on Atlantis broke at 8280 lbs. The e-kink test had 31 broken wires which represents 39% of the metallic cross sectional area. The mandrel wrap test had zero breaks. The mandrel wrap test is the manufactures preferred test so we should give those results more weight than the e kink test. We have seen this much discrepancy between ekink and mandrel wrap test results before with other 1/4" wires but this is on the higher end. There is no evidence that we need to take any special precautions at this time but we should keep an eye on it and review this again when the next break test is requested. The break test results will be posted in Atlantis' wire data base.
Rick
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"The sea finds out everything you did wrong." Francis Stokes
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