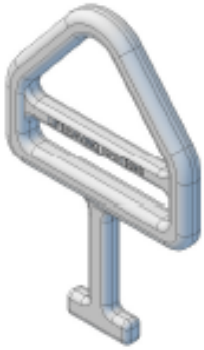
Lifesaving Systems Corporation
220 Elsberry Road
Apollo Beach, FL 33572
www.Lifesavingsystems.com

Ultimate Load Test

Test Report

Part Number: 384-2-F



Written by: TThomas Beach Date: 2-9-2017

(LSC Engineering) Thomas Beach

Approved by: Mario Vittone Date: 2-9-2017

(LSC Management)

PROPRIETARY & CONFINDENTIAL

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OWNED BY LIFESAVING SYSTEMS AND MAY NOT BE DUPLICATED, COMMUNICATED TO OTHER PARTIES OR USED FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN PERMISSION OF LIFESAVING SYSTEMS CORP.

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1.0 PURPOSE:

The purpose of this test plan is to determine the ultimate load of the V-Ring part number 384-2-F. Successful completion will confirm the 384-2-F demonstrates the suitability and safety for use on products designed to aid during helicopter hoist operations, including the deployment and recovery of both equipment and persons (Human External Cargo).

2.0 PART SPECIFICATIONS:

Material:

- Forged Corrosion Resistant Steel Alloy 17-4PH IAW SAE-AMS 5643

Heat Treatment:

- Solution Heat Treatment and Descaled IAW SAE-AMS 5643

Non-Destructive Inspection:

- Proof Load @ 2,500lbs, Anchor Points, Top of V-Ring and Webbing Slots.

Finish:

- Aluminum Oxide Blast

Passivate:

3.0 TESTING/INSPECTION:

Testing and inspection will be performed at Lifesaving Systems Corporation's (LSC) manufacturing facility located in Apollo Beach, Florida by LSC personal. The load testing and inspections will be conducted by Mario Vittone and Sam Maness. Photographs will be taken to document each stage.

4.0 TEST EQUIPMENT:

The primary testing equipment consists of the following items:

1. Force Measurement: 10,000lb S-beam load cell (transducer) with one (I) each 0-10,000lbs digital gauge. Calibration conducted by Micro Precision Calibration, Inc. Sticker dated 05/02/16, valid thru 05/02/17.



2. Load Tester: Hydraulic Pull Strength

5.0 TEST RESULTS:

Load Test Results	Sample Pass/Fail	Notes & Observations
3,500lb Test	PASS	No Deformation indicated
4,500lb Test	PASS	No Deformation indicated
5,500lb Test	PASS	No Deformation indicated
6,500lb Test	PASS	No Deformation indicated
7,500lb Test	PASS	Deformation Elongation
8,000lb Test	PASS	Significant Deformation Elongation

Load @ 3,500lbs:



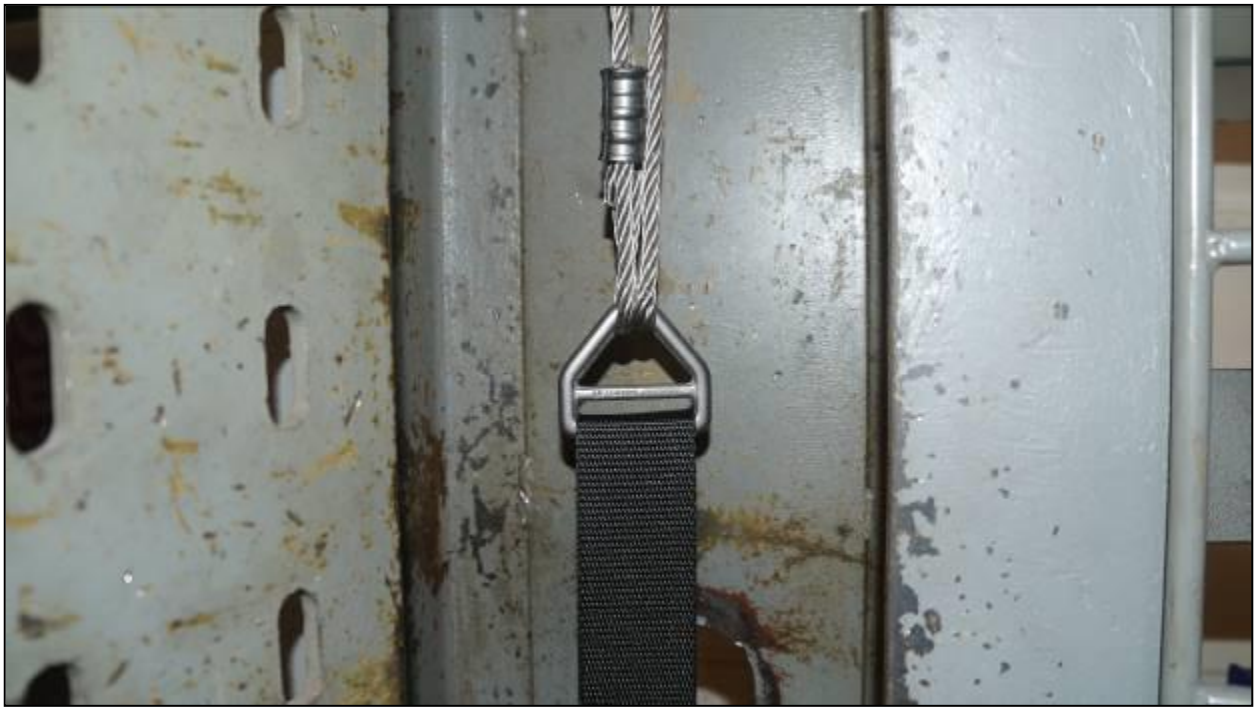


Load @ 4,500lbs:





Load @ 5,500lbs:



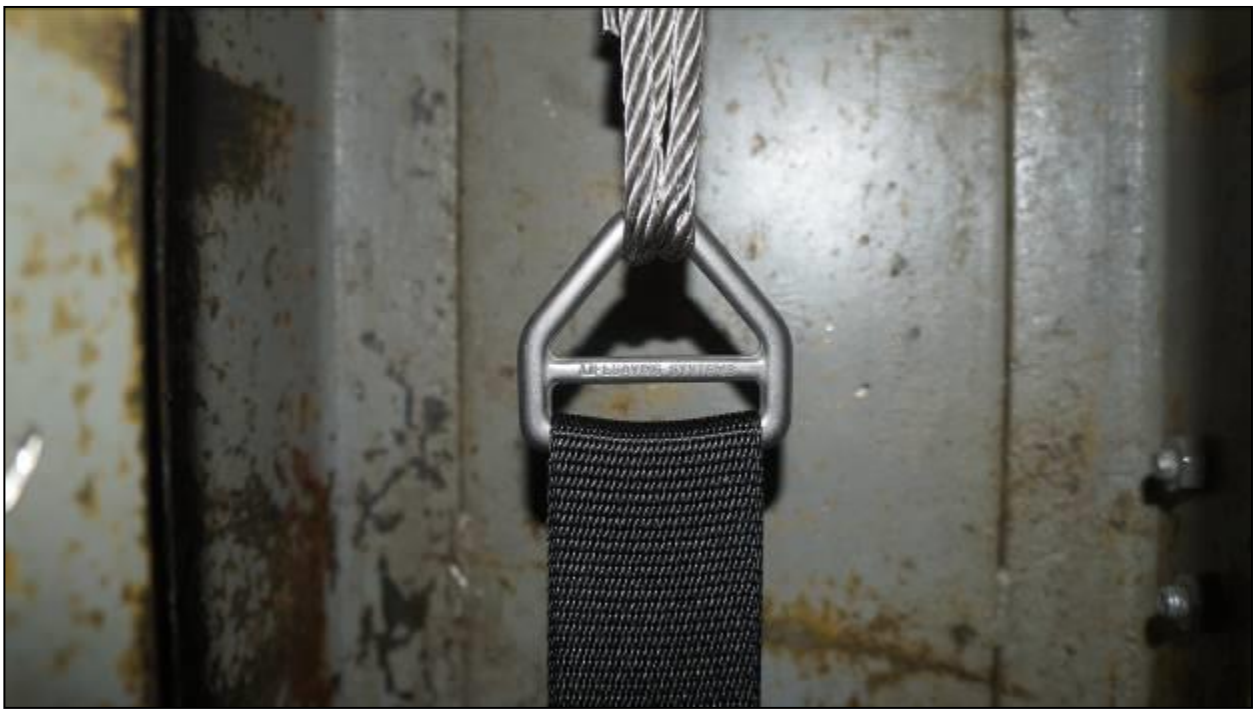


Load @ 6,500lbs:





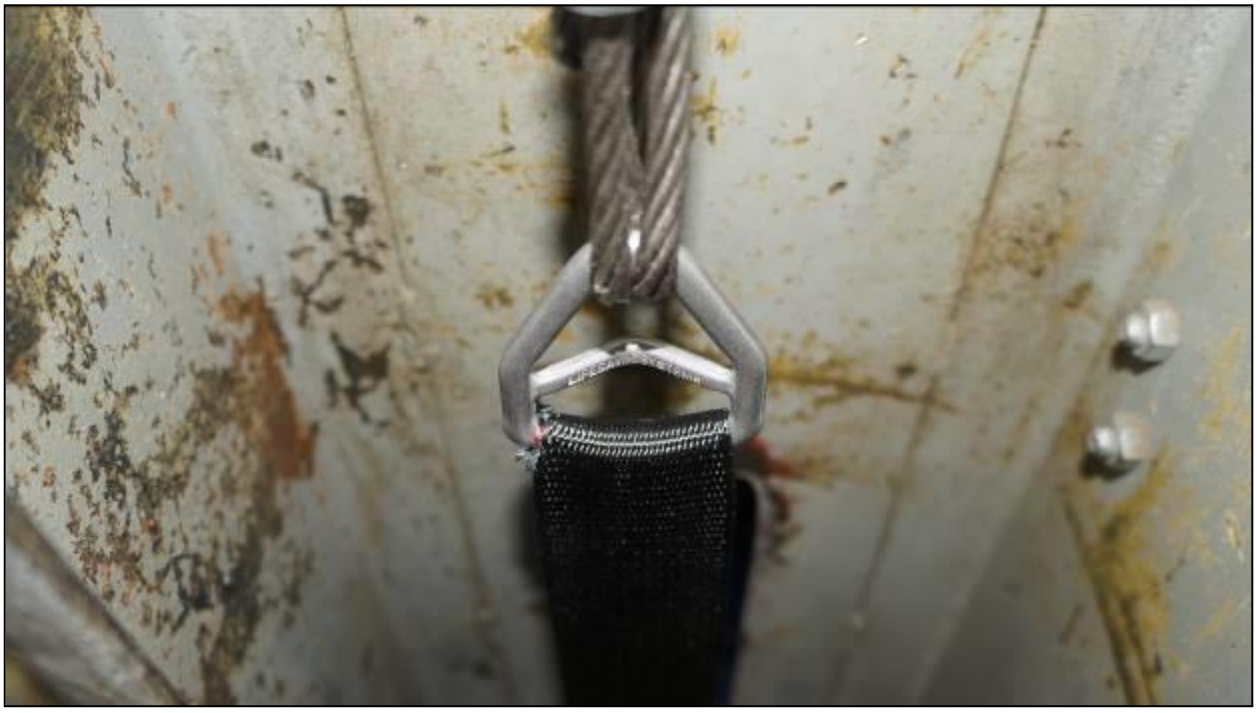
Load @ 7,500lbs:





Load @ 8,000lbs:





Final Result:

