

Progressive Engineering Inc.

Häst, PSC

Large Animal Sling Support Bar Test

This test report contains five (5) pages, including the cover sheet. Any additions to, alterations of, or unauthorized use of excerpts from this report are expressly forbidden.

2004-1844

1. TITLE

Large Animal Sling Support Bar Test.

2. OBJECTIVE

To load a support bar to failure as requested by Kathleen Becker of Häst, PSC and Dawn Slessman of Nature's Way. PEI is in no way responsible for the verification of the materials used in this test. It remains the sole responsibility of the manufacturer to provide a product consistent to that which was tested.

3. TESTED FOR

Häst, PSC P.O. Box 99767 Jeffersontown, KY 40269-0767

4. TESTING LOCATION

Progressive *€ngineering*, *∫nc*. 58640 State Road 15

Goshen, IN 46528 www.p-e-i.com

5. TESTING PERSONNEL

Director of Testing

- Greg A. Weeden

Laboratory Manager

- Jason R. Holdeman

Technician

- Shawn Kaufman

6. TEST SPECIMEN

Large Animal Sling Bar. See attached pictures for details.

7. TEST SETUP

The support bar was set in the Tinius Olsen hydraulic test machine between the top platen and the center platen to load the support bar in tension. See attached pictures for details.

8. TEST PROCEDURE

Load was applied at an approximate of .9" per minute until a failure was reached.

9. TEST RESULTS

The support bar obtained an ultimate load of 21,641 lbs. See attached data sheet for details.



Large Animal Sling Support Bar Test

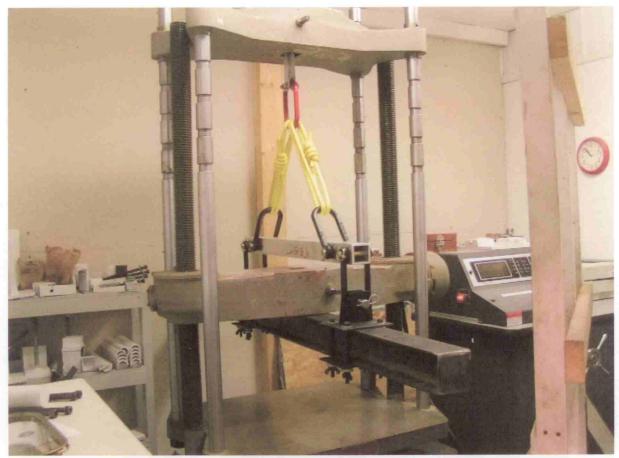
Client: Häst, PSC

Date: 11/16/2004

Description: 2-1/2" square x 1/4"thick tube x 36" long, with four clevices four ropes looped and tied around an oval ring. The holes through the aluminum tube measured approximately .775". See attached pictures for details.

Sling Support Bar Test		
Run #1	Ultimate Load	Comments
1	14,274 lbs.	A fixture bolt sheared before failure.
2	15,217 lbs	A hook on the fixture broke before failure
3	21,641 lbs.	The bar broke at a clevice location towards the end of the bar

Note: The sample was loaded several times due to fixture failure.



Test set up



Sample at failure



Sample at failure



Sample at failure