



# TLL's Semi-Annual Newsletter on Lifting Device Safety & Industry News

## What's New at

- Congratulations to **Jason Mula** of **Metro Recycling**, Guelph, Ontario. Jason was the Golf shirt winner in our June draw.
- Our twentieth year of business is only weeks away.

## You Asked Us...

**(Q)** Can I use a black marker to write my name and department ID on my safety harness?

**(A)** NO. According to manufacturers, the chemical composition of some permanent markers may react with the harness material, rendering it unsafe.

Certain markers are acceptable and writing on the leather patch may be an option. Please check with your authorized dealer before marking any harness.

**(Q)** I have heard different opinions on whether or not the bolts on our "I" Beam Crane rail structure require beam washers. What is the official answer?

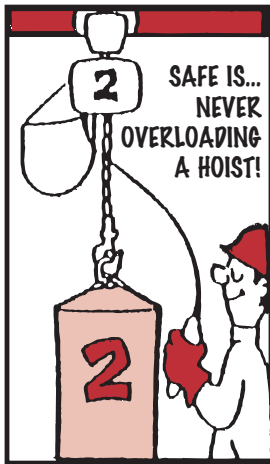
**(A)** Yes. Beam washers, also known as wedge washers, must accompany all "I" beam crane rail bolting. When utilizing "I" beams for monorails, bridges or runways, the beam washers are used in conjunction with beam bolts to eliminate bolt bending when torqued on tapered flanges, this prevents bolt shear. It is important to note that "H" beam bolting does not require beam washers because the beam flange is not tapered.

## We're Getting Around!

Our technical staff is getting around. Listed below are places Technical Loadarm has been performing lifting device safety services in the last 6 months:

- Glen - Seaforth, ON
- Neil - Owen Sound, ON
- Chris - Windsor, ON
- Neal - Chatham, AB
- Jason - Vanastra, ON
- Delbert - Anjou, PQ
- Al - Atlanta, GA
- Sam - Sacramento, CA
- Mike - Chicago, IL
- Ray - Forth Worth, TX

### Operator Safety Tip #13



USE PROPER CAPACITY HOIST TO FIT THE JOB. IN DOUBTFUL WEIGHT SITUATIONS HOISTS WITH OVERLOAD PROTECTION DEVICES WILL REJECT DANGEROUS OVERLOADS ...USE THEM!  
CAUTION: BE SURE OVERHEAD SUSPENSION WILL HOLD THE LOAD!



## Your feedback is valuable... [newsletter@technicalloadarm.com](mailto:newsletter@technicalloadarm.com)

If you have any comments or questions, we would be pleased to hear from you. **Each response faxed or e-mailed to our attention will be entered into a draw for a T.L.L. Sweatshirt.**

The draw will be held on December 30, 2005. *Good Luck!*

Name: \_\_\_\_\_ Company: \_\_\_\_\_

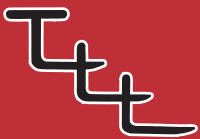
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City/Prov. \_\_\_\_\_ Postal: \_\_\_\_\_

COMMENTS / QUESTIONS: \_\_\_\_\_

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# SAFETY • BULLETIN

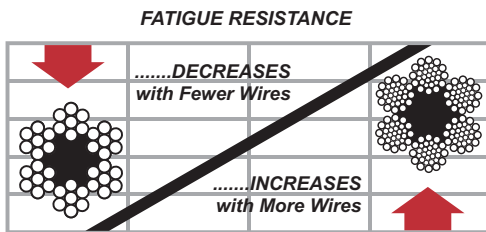
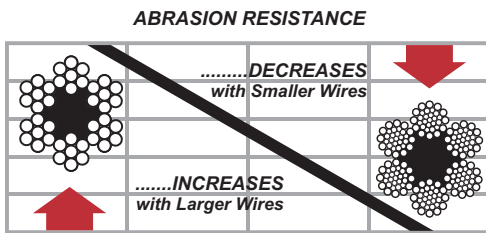


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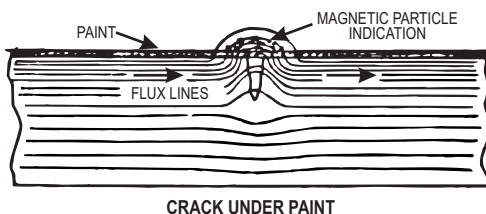
## Did You Know...



... Strands are the basic building blocks of wire rope. Many of the physical characteristics of wire rope, such as fatigue resistance and resistance to abrasion, are determined by the design of the strands. A strand consists of a “Center” which supports a specific number of wires around it in one or more layers. As a general rule, a strand made up of a small number of large wires will be more abrasion resistant and less fatigue resistant than a strand made up of many smaller wires.

## Did You Know...

... magnetic particle inspection can effectively be utilized to detect fatigue cracks under paint?



CRACK UNDER PAINT

## Did you know...

... that working load limits of crane / hoist hooks can be affected by alterations such as welding? The heat generated from welding can harm the Quench and Tempering process done

on most hooks, which in turn will reduce the strength and working load limit of the material. Any hook modifications whether welding or other would be at the user’s liability and is not recommended.

## Did you know...

... lift truck carriages require end stops to ensure attachments stay on the carriage? ANSI B56.11.4-J states: “Stops shall be provided to prevent lateral disengagement of the forks at the extremities of the carrier.” This is not to be confused with lock pins. Carriages without endstops create a dangerous situation.

## Did You Know...

...that nearly one quarter of all lift truck related deaths are caused when the forklift overturns? The most common general accident involves injuries to pedestrians who are struck by lift trucks.

## Did You Know...

...according to ASME B30-23.1998 a personnel lifting platform shall:

- A) Have a minimum platform capacity of 300 lbs.
- B) Have guardrail protection consisting of a top rail, intermediate rail, toe board and lower barrier.
- C) Have slip resistant flooring
- D) Have flooring with no opening that will allow a sphere of .5 inches or 13mm to pass through.

## Services Provided

### Lifting Device Safety Inspection of:

- Tower, Mobile & Bridge Cranes
- Manual, Electric & Air Hoists
- Powered Lift Trucks
- Lift Truck Booms & Attachments
- Chain, Wire Rope & Fabric Slings
- Battery Hoists, Car Hoists & Lift Truck Hoists
- Spreader Beams, Crane Magnets & Tong Attachments
- Pallet Lifters, Sheet Lifters, Plate Lifters & Coil Lifters
- C Hooks, J Hooks, Crane Hooks & Coil Upenders
- Manlifts, Scissor Lifts, Zoom Boom, Snorkel Lifts & Man Cages
- Pallet Trucks, Die Carts, Lift Tables & Die Lifters
- Eyebolts, Swivel Hoist Rings & Shackles

### Engineering Services:

- Capacity ratings for Crane Bridges, Monorails and Structures
- Miscellaneous Lifting Devices
- Industrial Racking & Other similar items
- Load Testing

### Nondestructive Examination of:

- Automotive Mass Production Parts
  - Barrel Dumpers
  - Basketball Nets & Supports
  - Coil Cradles
  - Conveyor Systems
  - Front End Loaders
  - Jacks & Die Stands
  - Pins & Shafts
  - Press Beds & Structures
  - Racking
  - Safety Harnesses & Lanyards
  - Scaffolding
  - Ladders
  - Tractor Trailers & Trailer Hitches
- \*\*\* NDE is performed using Visual, Dye Penetrant, Magnetic Particle or Ultrasound Processes

### Training Programs:

- Crane & Rigging Operator Training
- Maintenance & Safety Inspection Training (all Devices)
- Lift Truck Operator
- Nondestructive Examination Training (magnetic particle)

