


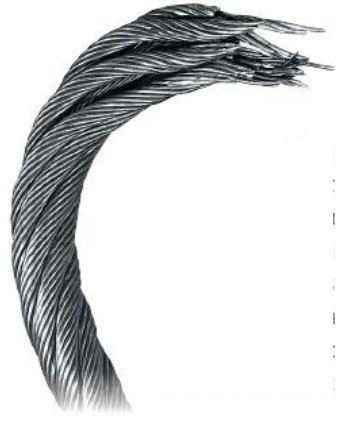




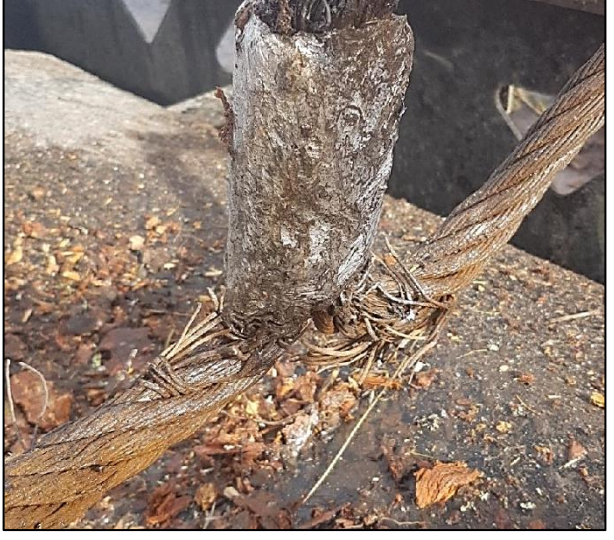


# Inspecting a Molly

Inspection Steps	Actions
1. Check the overall rope	Cables need to be replaced if 3 or more wires are broken in one strand, there is evidence of any damage in the rope structure (see below for examples)
2. Check the connection point to trailer	Mollies must be chained down if they impede the offloading process
3. Check the thimbles being used to attached rope to trailer	<u>Do not</u> lift trailer with damaged or frayed molly, cables, anchors, and/or linkage <u>Do not</u> lift your load on a crimp <b>Do</b> nestle hoist hook in between two crimps
4. Check crimps and lifting point	Ensure required inspections are completed and documented including pre-shift inspection of cables

## When to Put a Molly Out of Service

Failure	Diagram	Image
<p><b>Birdcage</b></p> <p>Cause: Sudden release of tension and rebounding of rope.</p> <p>These wires will not return to their original position.</p> <p><b>REPLACE IMMEDIATELY</b></p>		
<p><b>Kink</b></p> <p>Cause: A rope should never be allowed to accumulate twist because it will loop and eventually form a kink.</p> <p>Once a loop is formed the damage is already done.</p> <p>Rope can no longer be used</p> <p><b>REPLACE IMMEDIATELY</b></p>		
<p><b>Curled Rope</b></p> <p><b>Tensile "Cup and Cone Breaks"</b></p> <p>Cause: The load exceeded the strength of the wire</p> <p><b>Shear Breaks</b></p> <p>Cause: Fatigued rope</p> <p><b>REPLACE IMMEDIATELY</b></p>		
<p><b>Wear</b></p> <p>What to look for: Flat areas on individual wires.</p> <p>When wires have lost 1/3<sup>rd</sup> of their original diameter</p> <p><b>REPLACE IMMEDIATELY</b></p>		
<p><b>Multiple Strand Breaks</b></p> <p>Cause: Continued peening, causing fatigue</p> <p>REPLACE IF MORE THAN <b>THREE (3) WIRES ARE BROKEN IN ONE LAY</b> IN SECTIONS BETWEEN END CONNECTIONS OR <b>ONE (1) BROKEN WIRE WITHIN ONE LAY</b> OF AN END CONNECTION</p> <p><b>REPLACE IMMEDIATELY</b></p>		
<p><b>Rust</b></p> <p>Can appear on outer cords, or be hidden underneath outer cords that appear to be ok</p> <p>Consider checking more thoroughly for rust in winter when calcium used on hws are used</p> <p><b>REPLACE IMMEDIATELY</b></p>		