

Wire Rope Inspection Report & Criteria for Removal of Rope from Service

Wire Rope Inspection Report	
Machine	Owned by
Machine Location	Manufacturer's ID#
Rope Application	
Rope Description	
Date of Inspection	Applicable Standards

The wire rope shall be inspected by a competent person for visible defects prior to each use and must have a thorough inspection once a month.

Criteria for Removal of Rope from Service					
Wire Rope	Location on Wire Rope				
Maximum wire rope size reduction of diameter 5% as compared to original wire rope diameter (typically 0.0156 in. for 5/16 wire rope and 0.0165 in. for 8.4 mm wire rope)					
Evidence of heat damage/corrosion/ pitting/abrasion/flattening					
Distortion of rope structure; crushing/kinking					
6 broken wires in 1 rope lay					
3 broken wires in 1 strand of 1 lay					
End Attachments					
1 broken wire within 18 in. of end attachments					
Other					
Look for damage – rope must have 3-ton (6,000 lb, 2,721.6 kg) minimum strength for 1,000 lb. (453.6 kg) rated capacity units; 3.75 tons (7,500 lb, 3,402 kg) for 1,250 lb. (567 kg) rated capacity units.					
Make sure rope is properly lubricated					