

Provided that in the case of such gear used solely on cranes and other hoisting appliances worked by hand, twelve months shall be substituted for six months in sub-paragraph (i) and two years for twelve months in sub-paragraph (ii);

Provided also that, if the competent authority is of opinion that owing to the size, design, material or infrequency of use of any of the said gear the requirements of this paragraph as to annealing are not necessary for the protection of the workers, it may, by certificate in writing (which it may at its discretion revoke), exempt such gear from the said requirements subject to such conditions as may be specified in the said certificate.

(b) In the case of chains and the said gear not carried on board ship: Measures shall be prescribed to secure the annealing of the said chains and gear.

(c) In the case of the said chains and gear whether carried on board ship or not, which have been lengthened, altered or repaired by welding, they shall thereupon be tested and re-examined.

(4) Such duly authenticated records as will provide sufficient *prima facie* evidence of the safe condition of the machines and gear concerned shall be kept, on shore or on the ship as the case may be, specifying the safe working load and the dates and results of the tests and examinations referred to in paragraphs (1) and (2) of this Article and of the annealings or other treatment referred to in paragraph (3).

Such records shall, on the application of any person authorized for the purpose, be produced by the person in charge thereof.

(5) The safe working load shall be kept plainly marked on all cranes, derricks and chain slings and on any similar hoisting gear used on board ship as specified by national laws or regulations. The safe working load marked on chain slings shall either be in plain figures or letters upon the chains or upon a tablet or ring of durable material attached securely thereto.

(6) All motors, cogwheels, chain and friction gearing, shafting, live electric conductors and steam pipes shall (unless it can be shown that by their position and construction they are equally safe to every worker employed as they would be if securely fenced) be securely fenced so far as is practicable without impeding the safe working of the ship.

(7) Cranes and winches shall be provided with such means as will reduce to a minimum the risk of the accidental descent of a load while in process of being lifted or lowered.

(8) Appropriate measures shall be taken to prevent exhaust steam from and, so far as practicable, live steam to any crane or winch obscuring any part of the working place at which a worker is employed.

(9) Appropriate measures shall be taken to prevent the foot of a derrick being accidentally lifted out of its socket or support.

#### Article 10

Only sufficiently competent and reliable persons shall be employed to operate lifting or transporting machinery whether driven by mechanical power or otherwise, or to give signals to a driver of such machinery or to attend to cargo falls on winch ends or winch drums.