

# Lloyd's Proving House.

H. GREEN.

SUPERINTENDENT.

(APPOINTED BY LLOYD'S COMMITTEE.)

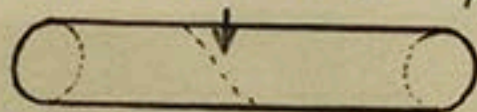
*Netherton, near Dudley.*

September 25th 1907.

Dear Mr Cornish,

I have pleasure in giving you a brief account of the few items of interest you witnessed during your flying visit here & also the number & capacity of the machines in operation.

The first thing witnessed was the cutting through of a large end link by the three-cylinder hydraulic shears, which are capable of cutting through with ease a bar of iron from 4" to 5" dia; following this a 15 fathoms of 3-3/8" stud cable was tested to the tensile test, viz, 169-1/8 tons: afterwards being hauled on to the examining bed for the usual examination. A sample of 3 links of 3 3/4" stud from the "LUSITANIA'S" cables which had been previously tested to the full power of the machine <sup>was then tested up to</sup> 350 tons without breaking, which is equal to 84.4 % above the tensile test; the Statutory breaking strain being 265.7 tons, which is 40 % above the tensile test this test would be more severe on account of it being the second time of testing to that load, & the crystalline structure set up in the first test being somewhat disturbed in the ends of the two outer links, they having to accomodate themselves to new retaining bolts which were used in that test. A second 3 links sample from the LUSITANIA'S cable which had previously been tested to 350 tons was afterwards <sup>tested in</sup> which had been sawn across the weld an inch deep, thus:-



this broke at 261 3 3 0, showing a perfectly solid weld, which reflected great credit on the chain smith for his skill.

72.5% above  
normal breaking



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CONTINUATION SHEET.

in welding such a large section of iron.

There are five testing machines at this Establishment viz, 350 & 150 tons breaking machines, & 200, 105, & 50 tons tensile machines respectively: & also one-three cylinder, & a single cylinder hydraulic shears, & one steam shears for cutting out chain samples.

With kind regards.

Yours faithfully,

*H. Green.*

SUPERINTENDENT.

H.J. Cornish, Esq.,

Lloyd's Register of Shipping,

L O N D O N, E.C.



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