

Lloyd's Register of Shipping.

Hamburg Report Nr. 22443



Port of Düsseldorf

12th February, 1937.

Order: Rd.Schb.1697/21998.

This is to Certify that

Leo Schein

the undersigned Surveyor to this Society did at the request of Messrs.Mannesmannröhren-Werke of Remscheid test and inspect on the 27th January and 2nd February 1937 at their works the undermentioned seamless Siemens-Martin Steel tubes, ordered by Messrs.Howaldtswerke A.G. of Kiel.

Specification.

| No.of tubes | Outs.diam. | Thickn.of shell |
|-------------|------------|-----------------|
| 35 mtr. | 44,5mm | 4mm |
| 70 " | 38,0mm | 3,75mm |
| 30 " | 30,0mm | 3,75mm |

Results of tests.

| Sample No. | Tensile str.in kg.p.sq.mm | Elongation in 200mm |
|------------|---------------------------|---------------------|
| 8 | 40,8 | 30,0% |
| 9 | 35,2 | 32,0% |
| 10 | 36,6 | 31,0% |
| 11 | 43,8 | 26,0% |

Expanding,flanging and flattening tests good.

The tubes have been inspected externally and so far as possible internally.

3 of the above tubes have been tested by hydraulic pressure to 70 atm.without signs of defects.

Identification marks:

Fees: RM 10,-
Expenses: RM 3,-
Total: RM 13,-

Düsseldorf account No.: 4411

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:

"While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default or negligence of any of its Committees or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."

W21-0186 (1/2)

2nd sheet.

Hamburg Report Nr. 22443

Order: Schb.1400/S.122046.

Düsseldorf, 19th February, 1937.

| Item No. | Sample No. | Tensile str.in kg.p.sq.mm | Elong.in 200mm |
|----------|------------|---------------------------|----------------|
| 6 | 8 | 41,5 | 25,0% |
| 7 | 72 | 40,5 | 23,0% |
| 8 | 7 | 39,9 | 20,0% |
| 9 | 78 | 39,9 | 20,0% |
| 10 | 79 | 41,2 | 23,0% |
| | 80 | 41,7 | 22,0% |
| | 84 | 38,4 | 25,5% |
| 11 | 86 | 40,2 | 21,5% |
| | 87 | 41,1 | 23,0% |

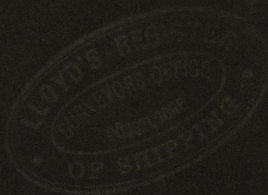
Expanding, flanging and flattening tests good.

The tubes have been inspected externally and so far as possible internally.

The tubes Item No. 1 & 2 have been tested hydraulically to 64 atm. without signs of defects.

The tubes Item No. 3 to 11 have been tested by hydraulic pressure to 48 atm. and showed no signs of defects.

Identification marks: MAYNE



L. Klein
SURVEYOR TO LLOYD'S REGISTER

Fees: RM 60,-
Expenses: RM 2,-
Total: RM 62,-

Düsseldorf account No.: 9908



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Foundation

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