

LLOYD'S REGISTER OF SHIPPING

80

Port of Düsseldorf,
Berliner Allee 61

16th February, 1962

Works No. 71/219 787

This is to Certify that

W. S c h ö n a u

the undersigned Surveyor to this Society did at the request of

Messrs. Phoenix-Rheinrohr AG., Mülheim

attend their Works at Mülheim on the 2nd January, 1962
and subsequently
for the purpose of inspecting and testing 50 seamless SM-Steel (St.35.8)
tubes, details as below, to the order of Messrs. Deutsche Werft AG Hamburg
and intended for Order No. 28493/300 dd.5.9.61

The material has been manufactured in accordance with the
requirements of ~~the Society's Rules~~ DIN 17175/II

All of these tubes were examined, internally and externally, gauged
and checked for length and diameter by the undersigned and found
satisfactory.

Ten per cent of the total number were tested in the presence of the
undersigned to 150 ^{kg/cm²} ~~10. per square inch~~ hydraulic pressure and showed no
sign of defect; the remainder are stated to have been tested by the Makers
with satisfactory results.

Samples were cut up and subjected to tensile, ~~expanding~~ ^{ring} ~~expanding~~
and ~~flaring~~ tests with satisfactory results.

The ends of all the tubes were ^{not} ground to facilitate examination.

PARTICULARS OF TUBES.

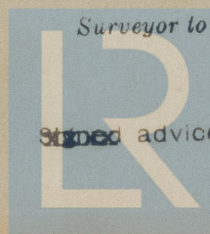
Number	Length	Diameter	Thickness	Description
For particulars of tubes and results of tests see attached sheet.				

4. *R. H. H. H.*
Surveyor to Lloyd's Register.

All tubes stamped:— LLOYD'S

Fee £ : :
Go.

Strong advice note attached



Lloyd's Register
Foundation

2nd sheet

Works No. 71/219 787

Particulars of tubes

No. of tubes	Outs. diam.	Thickn. of wall	Charge
	mm	mm	No.
4	76.1	8	48783
46	76.1	8	49653

Results of tests

Sample No.	Charge No.	Yield point kg/mm ²	U.T.S. kg/mm ²	Elongation	
				% on 200mm	5 x d
30 strip spec.	49653	32.0	42.2	20.0	30.0
29 "	"	30.9	42.8	25.0	28.0
50 "	48783	29.3	42.0	24.0	33.0
51 "	"	29.3	41.7	20.0	28.0

Chemical analyses as stated by the manufacturer:

Charge	C	Si	Mn	P	S	%
48 783	0.10	0.19	0.47	0.014	0.024	
49 653	0.10	0.24	0.49	0.023	0.022	

W. Schönau

(W. Schönau)

Surveyor to Lloyd's Register of Shipping



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