

# LLOYD'S REGISTER OF SHIPPING

Works No. 1/47 948  
Order No. 899/59 S. 498/499

## SHIP OR ENGINE FORGINGS OR CASTINGS

I have to report that the Forgings or Castings, as herein described, manufactured by Messrs. Klöckner Werke AG., of Osnabrück Georgsmarienwerke for the Engines No. being constructed by Messrs. J.L. Meyer, of Papenburg/Ems for the Ship No. 498/499 being built by of

have been inspected by me as set forth below and found to be, so far as can be seen, sound and free from defects. These have been despatched to Papenburg

ITEM	One intermediate shaft	one intermediate shaft	one intermediate shaft
Identification No.	741 GS 22.6.59	742 GS 29.6.59	743 GS 22.6.59
Surveyor's Initials.	<i>Y. N<sup>o</sup> 499.</i>	<i>G. S. Y. N<sup>o</sup> 498</i>	<i>Y. N<sup>o</sup> 499.</i>
Materials.		SM Steel	
Charge No.		56 154	
How made.		forged	
Heat treated.		yes	
Drawing No.		Ma 2a, part A	
Dimensions.		1090 kg each	
Weight.		rough machined	
Progress on Insp.			
Yield kg per sq <sup>mm</sup>	26.1 26.8	22.4 25.5	28.6 24.3
Ult. kg per sq <sup>mm</sup>	46.1 45.5	44.2 46.1	46.1 45.5
Elong. % on 4 V A	39.0 38.0	36.0 38.0	39.2 36.8
5 x d	32.9 33.7	31.1 33.3	34.0 32.9
Reduc. of Area %	59.5 55.9	58.6 60.4	59.5 56.8
Cold Bend.		180° satisfactory	
Brinell.		--	
Izod.		--	
Final date.	22.6. 59	29.6.59	22.6.59

Date of approval of chemical analysis, physical properties and heat treatment in the case of special steels for reduction gearing forgings.

Other tests: Analysis as stated by the manufacturers:-

Charge No.	C%	Si%	Mn%	P%	S%
56 154	0.20	0.32	0.57	0.018	0.029

*Examined in the finished condition,*

Fee:

Expenses:

REC'D 23. JULY 1959  
ANSD

Signature of

G. Stockfleth Date 21.7.59

\*Delete where not applicable.

Surveyor to Lloyd's Register of Shipping

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