

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 being constructed by Messrs. J.L. Meyer, *for the Engines No. 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 interm. shaft
Identification No.	744 GS 15.6.59	LLOYD'S HNO 745 KN 12.6.59	746 GS 15.7.59
Surveyor's Initials.	Y. No 498	G. S. Y. No 498	Y. No 499
Materials.		SM Steel	
Charge No.		56 154	
How made.		forged	
Heat treated.		yes	
Dimensions Drawing No.		Ma 2a, part A	
Weight.		1090 kg each	
Progress on Insp.		rough machined	
Yield kg per sq ^{mm}	26.1 23.6	26.1 23.6	24.9 23.6
Ult. kg per sq ^{mm}	46.1 45.5	46.1 44.8	46.7 46.1
Elong. % on 5 x d	39.0 38.8 33.1 33.6	40.8 38.8 34.7 34.3	35.2 37.0 31.1 31.6
Reduc. of Area %	59.5 62.1	59.5 58.6	55.9 57.7
Cold Bend.		180° satisfactory	
Brinell.		--	
Izod.		--	
Final date.	15.6.59	12.6.59	15.7.59

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 found satisfactory

Fee:

Expenses:

REC 23. JUL 1959
ANSO

Signature

G. Stockfleth Date 21.7.1959

*Delete where not applicable.

Surveyor to Lloyd's Register of Shipping

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