PORT Hannover, Georgstr. 40 COPY

No HNO.F. 59/533

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., Georgsmarienwerke *of* Osnabrück

**for the Engines No.* *being constructed by* Messrs. J.L. Meyer

of Papenbuerg/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		1 intermediate shaft	
			LLOYD'S HNO			
Identification No.	797 GS 26.6.59		798 GS 26.6.59		799 19.6.59	
Surveyor's Initials.	Y. N° 498		G. S. Y. N° 498		Y. N° 499	
Materials.			SM Steel			
Charge No.	56 210		56 210		56 194	
How made.			forged			
Heat treated.			yes			
Drawing No.			Ma 2a, part A			
~~Dimensions.~~						
Weight.			1090 kg each			
Progress on Insp.			rough machined			
Yield kg per sq.mm	28.0	28.6	28.0	27.4	27.4	28.0
Ult. kg per sq.mm	49.2	48.6	49.2	47.3	49.8	50.4
Elong. % on 4 $\sqrt{A}$	37.4	39.2	36.0	36.8	37.4	35.0
Elong. % on 5 x d	32.9	33.6	31.7	32.0	32.9	31.0
Reduc. of Area %	55.9	58.6	55.9	55.9	54.0	54.9
Cold Bend.			180° satisfactory			
Brinell.			--			
Izod.			--			
Final date.	26.6.59		26.6.59		19.6.59	

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

Analyses as stated by the manufacturers:-

Charge No.	C%	Si%	Mn%	P%	S%
56 210	0.21	0.30	0.77	0.016	0.016
56 194	0.25	0.28	0.60	0.021	0.019

Other tests mined in the finished condition, found satisfactory

Fee : *Signature* G. Stockfleth *Date* 21.

Expenses :

REGD 23. JULI 1959
ANSD

*Delete where not applicable.

Surveyor to Lloyd's Register of Shipping

Rpt. 6 (Ship & Eng.) 100m,3,58 (MADE AND PRINTED IN ENGLAND) (TURN UP

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