

LLOYD'S REGISTER OF SHIPPING

ts No. 44733
er No. 30 271/57 GV

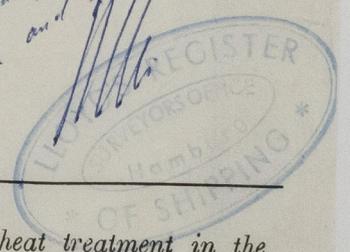
SHIP OR ENGINE FORGINGS OR CASTINGS

I have to report that the Forgings or ~~Castings~~ as herein described, manufactured by Messrs. Klöckner-Georgsmarienwerke AG., of Osnabrück
*for the Engines No. being constructed by Messrs. MAN, of Hamburg for the Ship No. 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 Hamburg.

ITEM	1 solid forged 10-throw crankshaft	
Identification No.	LLOYD'S HNO 947 K.N. 17.11.58 K.N.	
Surveyor's Initials.	K.N.	
Materials Charge No.	SM. Steel 54471	
How made.	forged	
Heat treated.	yes	
Dimensions.	286 Ø / 286 Ø mm	
Weight.	8,600 kg	
Progress on Insp.	rough machined	
Yield kg per sq. mm	32.4	32.4
Ult. kg per sq. mm	56.7	57.3
Elong. % on 4 V A 5 x d	33.2	32.0
	29.0	28.0
Reduc. of Area %	52.1	50.1
Cold Bend.	180 degr. satisfactor	
DVM Impact Test	6.9	6.6
Brinell mkg/cm ²	5.7	6.3
	6.6	5.1
Izod.	--	
Final date.	17.11.58	

Examined in connection with rough machined and found good



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

Na Other tests: --

Fee: Report on Material
Expenses: Received at
Signature: *Kh. Nagel*
Surveyor to Lloyd's Register of Shipping
Office on Date: 8.12.58
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