

PORT of Düsseldorf, Berliner Allee 61

Dr.F. No.59/117

LLOYD'S REGISTER OF SHIPPING

'SHIP OR ENGINE FORGINGS OR CASTINGS

Works No. 335 890

Order No. 30 980/57 KZ, 27.9.57 Zi

I have to report that the Forgings ~~as~~ ^{as} herein described, manufactured

by Messrs. Gutehoffnungshütte Sterkrade A.G. of Oberhausen-Sterkrade

*for the Engines No. being constructed by Messrs. Maschinenfabrik Augsburg-Nürnberg AG.,
of Hamburg for the Ship No. being built by Werk Hamburg

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.

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:
"While the Committee of the Society use their best endeavours to ensure that the Society are properly constituted it is to be understood that neither the Committee nor the Society are responsible for any error or omission in the Register Book or other publication of the Society, or for any error of judgment, default or negligence of any of its Committees or any Member thereof, or the Surveyor, or other Officers or Agents of the Society."

ITEM	Inspected 605313	
	one 7-throw solid forged crankshaft	
Identification No.	LLOYD'S Dsf. 88 G.S. 21.1.59	
Surveyor's Initials.	G.S.	
Materials.	S.M.Steel	
How made.	forged	
Heat treated.	yes	
Dimensions.	to sketch D 168 172/3, Part 1-5	
Weight.	12.5 to	
Progress on Insp.	finished condition	
Yield kg per sq. mm	28.6	35.1
Ult. kg per sq. mm	53.3	53.3
Elong. % on 50 mm	32.0	30.8
5 x d	27.4	26.3
Reduc. of Area %	55.9	54.9
Cold Bend.	180 degr. good	
D.V.M. Impact Test		
5 x d mkg/cm ²	5.8	6.6
Izod.	-	
Final date.	21.1.59	

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

Chemical analysis as stated by the steel makers:

Other tests: Charge No. C Si Mn P S %

11696 0.32 0.35 0.64 0.022 0.021 %

Wf.

Fee:

Expenses:

Signature

Surveyor to Lloyd's Register of Shipping 27.1.59

*Delete where not applicable.