

LLOYD'S REGISTER OF SHIPPING

~~SHIP OR ENGINE FORGINGS OR CASTINGS~~

I have to report that the Forgings ~~or Castings~~, as herein described, manufactured

by Messrs. Maschinenfabrik of Augsburg
Augsburg-Nürnberg A.G.

*for the Engines No. 402 045 being constructed by Messrs. Maschinenfabrik
Augsburg-Nürnberg A.G.
of Augsburg for the Ship No. - being built by The

Estaleiros Navais of Viana do Castelo

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 -

ITEM	One 8-throw solid forged crankshaft	
Identification No.	LLOYD'S AUG 1485/6027 A 16.12.59 G.H.	
Surveyor's Initials.	G.H.	
Materials.	SM Steel C 40	
How made.	forged	
Heat treated.	yes	
Dimensions.	to plan OD 12198	
Weight.	2200 kgs.	
Progress on Insp.	rough turned and finished machined	
Yield kgs. per sqmm	40.2	351
Ult. kgs. per sqmm	63.9	63.5
Elong. % on 50 mm	31.2	28.4
Reduc. of Area %	44.8	44.8
Cold Bend.	180 degr. good	
Brinell.	183	183
Izod.	-	-
Final date.	16.12.1959	

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

Other tests :

Fee :

Expenses :



Signature

Surveyor to Lloyd's Register
of Shipping.

Office

Date

18.3.60

*Delete where not applicable.