

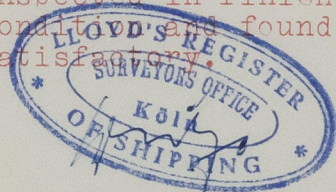
LLOYD'S REGISTER OF SHIPPING

3800/245 \*SHIP OR ENGINE FORGINGS OR CASTINGS  
156513-16

I have to report that the Forgings or Castings, as herein described, manufactured  
by Messrs. Boschgotthardshütte of Weidenau/Sieg  
O. Breyer GmbH  
for the Engines No. - Type being constructed by Messrs. Klöckner-  
Humboldt-Deutz A.G.  
of Köln-Deutz for the Ship No. XXXXXX being built by

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 Köln-Deutz.

ITEM	One 6-throw solid forged crankshaft
Identification No.	LLOYD'S KLN. 575 K.W. 28.8.61
Surveyor's Initials.	K.W.
Materials.	Carbon steel
How made.	forged
Heat treated.	yes
Dimensions.	according to drawing No. 267 471 Z amendm. 4
Weight.	910 kg inspected in finished condition and found satisfactory.
Progress on Insp.	partly finished
Yield kg per sq. mm	40.3
Ult. kg per sq. mm	69.6
Elong. % on 5 x d	20.0
Reduc. of Area %	38.3
Gold Bend. Test	180 degr. satisfactory
XXXXX mkg/cm2 Brinell.	4.0 3.9
Izod.	-
Final date.	28.8.61



Date of approval of chemical analysis, physical properties and heat treatment in the case of special steel forgings.

Charge No.	C%	Si%	Mn%	P%	S%
Other tests: 4046	0.47	0.35	0.71	0.014	0.023

Fee:

Expenses:

Signature

K. Wellen

Surveyor to Lloyd's Register of Shipping

Date 19. 1. 62

\*Delete where not applicable.