

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-
 of Köln-Deutz XXXXXX Humboldt-Deutz A.G.
 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 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 Steels for reduction forgings.

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

Fee:

Expenses:

Signature

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 K. Wellen
 Surveyor to Lloyd's Register of Shipping
 Date 19. 1. 62

*Delete where not applicable.