

# LLOYD'S REGISTER OF SHIPPING

## ~~SHIP OR~~ ENGINE FORGINGS ~~OR CASTINGS~~

No. 45 132  
 No. VE 13/DA 15613-18 dd. 21.7.60

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

by Messrs. Stahlwerk Carl Kleuser of Remscheid-Haddenbach

for the Engines No. being constructed by Messrs. Klöckner-Humboldt-Deutz AG

of Köln-Deutz 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.

Type V6M 536

ITEM One solid forged 6-throw crankshaft

Identification No. LLOYD'S DSF H.S. 49 Date

Surveyor's Initials. H.S.

Materials. SM Steel CK 45

How made. forged

Heat treated. yes

Dimensions. acc. to drawing No. 267 471 Z

Weight. 950 kg inspected in finished condition and found satisfactory.

Progress on Insp. rough machined

Yield kg per sq. mm 36.7

Ult. kg per sq. mm 65.4

Elong. % on 3.5 xd 27.9  
 5 xd 25.7

Reduc. of Area % 45.0

Cold Bend. 180 degr. good

Brinell. -

Izod. -

Final date. 19.7.61



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

Other tests: Chemical analysis as stated by the manufacturer:

Charge	C	Si	Mn	P	S	%
144 401	0.45	0.28	0.66	0.016	0.024	

The crankshaft has been fluxed.

Fee: Signature

Expenses:

(Dr. H. Stiller) Date 15.3.62

\*Delete where not applicable.

Surveyor to Lloyd's Register of Shipping Foundation (TURN UP)

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