

LLOYD'S REGISTER OF SHIPPING

rks No. 03897 *SHIP OR ENGINE FORGINGS OR CASTINGS
der No. VE 13/DA 196513-19

I have to report that the Forgings or Castings, as herein described, manufactured
by Messrs. Carl Vorlaender & Cie. of Stift Keppel-Allenbach
*for the Engines No. - Type being constructed by Messrs. Klöckner-
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.

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:—
“While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry 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 Surveyors, or other Officers or Agents of the Society.”

| ITEM | One 6-throw solid forged crankshaft |
|--|---|
| Identification No. | LLOYD'S KLN 471 H.L. 12.12.61 |
| Surveyor's Initials. | H.L. |
| Materials. | SM.steel |
| How made. | forged |
| Heat treated. | yes |
| Dimensions. | according to drawing No. 267 471 Z amendm. No. 4 |
| Weight. | 1000 kg inspected in finished condition and found satisfactory. |
| Progress on Insp. | rough machined |
| Yield kg per sq. mm | 40.7 |
| Ult. kg per sq. mm | 68.1 |
| Elong. % on 5 x d | 26.7 |
| Reduc. of Area % | 55.6 |
| Cold Bend. | 180 degr. satisfactory |
| DVM Imp. Test XXXXX mkg/cm ² Brinell. | 8.3, 7.1 |
| Izod. | - |
| Final date. | 12.12.61 |



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

| Charge No. | C% | Si% | Mn% | P% | S% |
|------------------|------|------|------|-------|-------|
| Other tests 4232 | 0.48 | 0.29 | 0.62 | 0.018 | 0.017 |

D.

Fee :

Expenses :

Signature

*Delete where not applicable.

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Lloyd's Register
Date 19.1.62
Surveyor to Lloyd's Register of Shipping
(TURN UP)