

LLOYD'S REGISTER OF SHIPPING

Works No. 1/47 948
Order No. 899/59 S. 498/499

SHIP OR ENGINE FORGINGS OR CASTINGS

I have to report that the Forgings or Castings, as herein described, manufactured by Messrs. Klöckner Werke AG., of Osnabrück Georgsmarienwerke
*for the Engines No. being constructed by Messrs. J.L. Meyer, of Papenburg/Ems for the Ship No. 498/499 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 Papenburg

| ITEM | One intermediate shaft | one intermediate shaft | one intermediate shaft |
|-------------------------------|------------------------|-----------------------------|------------------------|
| Identification No. | 741 GS 22.6.59 | 742 GS 29.6.59 | 743 GS 22.6.59 |
| Surveyor's Initials. | Y. N ^o 499. | G. S. Y. N ^o 498 | Y. N ^o 499. |
| Materials. | | SM Steel | |
| Charge No. | | 56 154 | |
| How made. | | forged | |
| Heat treated. | | yes | |
| Drawing No. | | Ma 2a, part A | |
| Dimensions. | | 1090 kg each | |
| Weight. | | rough machined | |
| Progress on Insp. | | | |
| Yield kg per sq ^{mm} | 26.1 26.8 | 22.4 25.5 | 28.6 24.3 |
| Ult. kg per sq ^{mm} | 46.1 45.5 | 44.2 46.1 | 46.1 45.5 |
| Elong. % on 4 V-A | 39.0 38.0 | 36.0 38.0 | 39.2 36.8 |
| 5 x d | 32.9 33.7 | 31.1 33.3 | 34.0 32.9 |
| Reduc. of Area % | 59.5 55.9 | 58.6 60.4 | 59.5 56.8 |
| Cold Bend. | | 180° satisfactory | |
| Brinell. | | -- | |
| Izod. | | -- | |
| Final date. | 22.6. 59 | 29.6.59 | 22.6.59 |

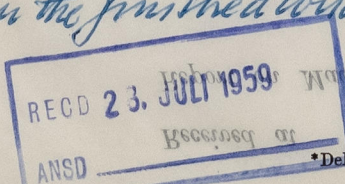
Date of approval of chemical analysis, physical properties and heat treatment in the case of special steels for reduction gearing forgings.

Other tests: Analysis as stated by the manufacturers:-
Charge No. C% Si% Mn% P% S%
56 154 0.20 0.32 0.57 0.018 0.029

Examined in the finished condition

Fee :

Expenses :



*Delete where not applicable.

G. Stockfleth Date 21.7.59

Surveyor to Lloyd's Register of Shipping