

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. 98/499 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 screw shaft with liner | one screw shaft with liner |
|----------------------|----------------------------|-----------------------------|
| Identification No. | 747 | LLOYD'S HNO GS 10.7.59 748 |
| Surveyor's Initials. | Working Y. No 498 | G. S. 47 Spare Y. No 498 |
| Materials. | | SM Steel |
| Charge No. | | 56 154 |
| How made. | | forged |
| Heat treated. | | yes |
| Drawing No. | | Ma 2a, part C |
| Dimensions. | | 1250 kg each |
| Weight. | | rough machined |
| Progress on Insp. | | |
| Yield kg per sqmm | 23.6 26.8 | 25.5 28.6 |
| Ult. kg per sqmm | 44.2 46.7 | 44.2 46.7 |
| Elong. % on 4 V A | 37.0 40.0 | 37.4 41.6 |
| 5 x d | 31.0 34.3 | 32.6 35.4 |
| Reduc. of Area % | 60.4 63.0 | 57.7 62.1 |
| Cold Bend. | | 180° satisfactory |
| Brinell. | | -- |
| Izod. | | -- |
| Final date. | | 10.7.1959 |

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

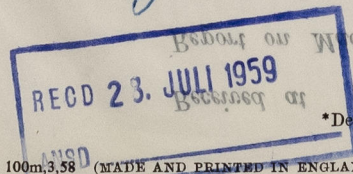
Identification marks on liners: 464 and 465 F.K. 16.6.59

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 |

Fee:

Expenses:



Signature of

G. Stockfleth Date 21.7.1959

*Delete where not applicable.