

MAIN PROPELLING OIL ENGINES.

Shafting Endorsement.

Shipbuilders: Messrs. *H. V. Scheepswerf "De Nederlands"* Yard No 378

Engineers: Messrs *H. P. Machinefabriek Keller* Engine No.

It is submitted that with engines for main propelling purposes, having particulars as stated below, the following size of shafting merit approval, viz.:

Sizes of Shafting:

|  |                     |  |
|--|---------------------|--|
| <del>Crank</del>                         | <del>Flywheel</del> | <del>Thrust</del>                              |
| Intermediate                             | Tube                | Screw  |
| <i>146 MM. DIAMETER AT THE COUPLINGS</i> |                     | <i>160 MM. DIAMETER AT THE TOP OF THE CONE</i> |

Particulars of Engines:

|                                 |                   |  |                               |
|---------------------------------|-------------------|--|-------------------------------|
| Engine Type                     | <i>2.S.C.S.A.</i> | Max. Press. in Cylinders                     | <i>50 Kg/cm<sup>2</sup></i>   |
| Open Sea Service                |                   | M.I.P. or M.E.P.                             | <i>5.65 Kg/cm<sup>2</sup></i> |
| <del>Smooth Water Service</del> |                   | I.H.P. or B.H.P.                             | <i>600</i>                    |
| No. of Cylinders                | <i>4</i>          | Weight of Flywheel                           | <i>1900 Kg</i>                |
| Diam. of Cylinders              | <i>340 mm</i>     | Diam. of Flywheel                            | <i>1550 mm</i>                |
| Stroke                          | <i>570 mm</i>     | <del>GD<sup>2</sup> of Balance Weights</del> |                               |
| <del>Span of Bearings</del>     |                   | <del>GD<sup>2</sup> of Turning Wheel</del>   |                               |
| Revs. per Min.                  | <i>235</i>        | Diam. of Propeller                           | <i>2100 mm</i>                |
|                                 |                   | Screw Shaft With <del>out</del>              | Continuous Liner              |

The plans showing the details of the straight shafting and stern tube also merit approval provided the steel castings be made at an approved works and tested in accordance with the Rules, and a key having a total area in shear of not less than 6300 mm<sup>2</sup> be fitted in the screwshaft coupling. It is considered that to comply with this recommendation the couplings ~~should~~ require to be lengthened.

Return 2 Plans. It is concluded that the couplings will be shrunk Retain 2 Copies on the intermediate shafting but this <sup>should</sup> be confirmed.

*L10/2/32*

Boya's Register  
12-2-37