

LLOYD'S REGISTER OF SHIPPING

CERTIFICATE FOR SHIP/ENGINE FORGINGS/CASTINGS

(Delete wording not applicable)

Port **RIO DE JANEIRO** Certificate No. _____
 Made by **ARSENAL DE MARINHA** Despatched to **SANTOS**
 Customer **LUCIANO CASTRO LTDA.** Order No. _____
 Ship/Engine F.E. Port **-** F.E. Rpt. No. _____
 For existing ships Name of ship **LUCIANO CASTRO** Repair port **-**
 Rpt. 8/9 No. _____

Description **ONE SCREWSHAFT**

Particulars of heat treatment

Material **Forged steel**

Weight (state if "as forged", "rough machined", etc.) **-**

Particulars of test

Two transverse tensile test pieces

Yield tons/in.² kg./mm.² **31.6 31.6**

Ultimate tons/in.² kg./mm.² **58.8 58.0**

Elongation % on 4√A **24.0 23.0**

Reduction of area, % **50.0 50.0**

Bend (state angle, radius & size of test piece) **180° 180°**

Impact (state type) **- -**

Hardness (state type) **- -**

Magnetic crack detection **- -**

Other tests **- -**

Cast No. **-**

Casting/Forging No. **-**

LLOYD'S No. **152**

State of manufacture on inspection* **furnished machined**

Surveyor's initials **J.T.T.**

Date of last inspection **-**

Special steels only: Nominal Composition **-**

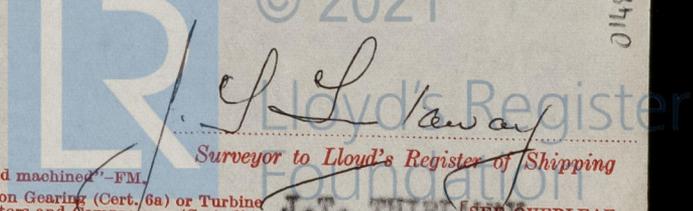
Stated ladle analysis **C 0.30**

I have inspected the material described above and found it, so far as could be seen, sound and free from defect.

Fee **£ 150.000.**

Expenses **NIL**

Date **9/11/65**

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 Surveyor to Lloyd's Register of Shipping
J.T. THIRD (SEE OVERLEAF)

014835-04842-0203

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provisions are set out 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.

200m, 10/63 (MADE AND PRINTED IN ENGLAND)

*For "As cast"-AC, "As forged"-AF, "Rough machined"-RM, "Finished machined"-FM.
 NOTE.—This form is not to be used for forgings or castings for Reduction Gearing (Cert. 6a) or Turbine Rotors, Discs and Splines, Rotors for Turbine Driven Generators and Compressors (Cert. 6b).