

AUXILIARY REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 100

Received at London Office
Köln 11 JUN 1956

Survey held at Köln-Deutz Date, First Survey 13.4.56 Last Survey 14.5.56
Number of Visits 5

on the Single Triple Quadruple Screw vessel
Hamburg By whom built Joh. Grothmann for Hongkong Yard No. - When built -

Köln-Deutz By whom made Klöckner-Humboldt-Deutz Engine No. 2077394-99 When made 5.56

By whom made - Generator No. - When made -

B.H.P. of each Set 90 M.N. of each Set as per Rule 18 Capacity of each Generator - Kilowatts

ended for essential services -

NGINES, &c.—Type of Engines Airl.Inj. Heavy Oil Eng. A6M 517 2 or 4 stroke cycle 4 Single or double acting single

pressure in cylinders 70 kg/cm² Diameter of cylinders 130 mm Length of stroke 170 mm No. of cylinders 6 No. of cranks 6

Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 137 mm

Moment of inertia of flywheel (16 m² or Kg.-cm.²) 28.9 kgm²

Revolutions per minute 1000 Diesel

Kind of fuel used Diesel

Weight 145 kg Means of ignition compr. Kind of fuel used Diesel

Mid. length breadth 130 mm Thickness parallel to axis -

Mid. length thickness 32.5 mm Thickness round eyehole -

Generator armature, moment of inertia (16 m² or Kg.-cm.²)

Means of lubrication forced Kind of damper if fitted vibration damper

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes

Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

One driven by Main Engine 45 ltrs. p. min.

No. of stages - Diameters - Stroke - Driven by -

How driven -

State No. of Report or Certificate -

RECEIVERS:—Have they been made under Survey -

Full details of safety devices -

Internal surfaces of the receivers be examined and cleaned -

Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

Range of tensile strength - Working pressure -

Internal diameter - thickness -

Range of tensile strength - Working pressure -

CTRIC GENERATORS:—Type -

Full Load Current - Amperes. Direct or Alternating Current -

Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

Generators, are they compounded as per Rule - is an adjustable regulating resistance fitted in series with each shunt field -

Are they so spaced -

Are the lubricating arrangements of the generators as per Rule -

and do the results comply with the requirements -

generators are 100 kw. or over have they been built and tested under survey -

of driven machinery other than generator -

Receivers - Separate Tanks -

Armature shaft Drawing No. -

yes

The foregoing is a correct description,

Klöckner-Humboldt-Deutz

Aktiengesellschaft

Manufactured



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Lloyd's Register
Foundation

012744-012751-0159

Dates of Survey while building { During progress of work in shops - - 1956 April 13.16.25. May 7.14.
During erection on board vessel - - -
Total No. of visits 5

Dates of Examination of principal parts - Cylinders 13.4. 16.4. 14.5. Covers 13.4. 14.5. Pistons 14.5. Piston rods -

Connecting rods 25.4. 14.5. Crank and Flywheel shafts 16.4. 14.5. Intermediate shafts -

Crank shaft { Material Chromium Molybdenum Steel Y.P. 67.5 kg/mm² Tensile strength 85.5 kg/mm²
Elongation 25.0 % on 3.5xd 20.0 % on 5xd Identification Marks Lloyd's Dsf. 257 H.S. 15.7.55

Flywheel shaft, Material - Identification Marks -

Identification marks on Air Receivers -

Is this machinery duplicate of a previous case yes If so, state name of vessel Beckmann Hamburg Dsf. Rpt. No. 50

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This engine has been constructed under special survey of tested materials and is in accordance with the Secretary's letters, approved plans and Rules requirements. The materials and workmanship are good and the engine, when tested in the shops under full and overload conditions was found to function satisfactorily. The governor tests were also satisfactory. This engine, in my opinion, is suitable for installation in a vessel classed with this Society.

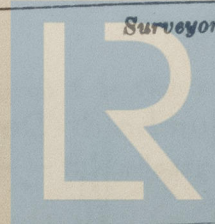
The amount of Fee ... £ DM : 200.-
Running Tests ... DM 100.-
Travelling Expenses (if any) £ DM : 30.-

When applied for 19
When received 19

Committee's Minute

Assigned

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation