

Auxiliary

London

pt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 257

mm. 683583
683584

Received at London Office

JUN 30 1938

Date of writing Report 16.6.38. When handed in at Local Office 25.6.38. Port of Düsseldorf

No. in Survey held at Cologne Date, First Survey 9.11.37 Last Survey 13.12.37 19

Reg. Book. Single on the Twin Triple Quadruple Screw vessel

Number of Visits

Built at Hongkong By whom built W.S. Bailey Co. Yard No. 272 When built 1938

Owners Port belonging to Eng. 480313/14 Oil Engines made at Cologne By whom made Humboldt-Deutzmotoren Contract No. 480315/16 When made 1938

Generators made at By whom made Contract No. When made

No. of ~~Eng~~ 2 Aux. Engine Brake Horse Power 2x27 Nom. Horse Power as per Rule 2x7.7 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine A2M 220 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 170 mm Length of stroke 200 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 191 mm Is there a bearing between each crank yes

Revolutions per minute 750 Flywheel dia. 850 mm Weight 1420 kg Means of ignition sol. inject Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 120 mm as fitted Crank pin dia. 110 mm Crank Webs Mid. length breadth 150mm Mid. length thickness 42.5mm Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 110 mm Thickness of cylinder liners 16 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced

Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material no

Cooling Water Pumps, No. no Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 tooth wheel pump capacity 24 ltrs/min at 990 r.p.m.

Air Compressors, No. No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver

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

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type

Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off

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

Are all terminals accessible, clearly marked, and furnished with sockets

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements

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

PLANS. Are approved plans forwarded herewith for Shafting 209856 6.12.37 Receivers. Separate Tanks (If not, state date of approval)

SPARE GEAR as per Rules

The foregoing is a correct description.

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.

Handwritten signature



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Lloyd's Register Foundation

009116 - 009121 - 0031

B.S.B.
4.7.38

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits

9.11.- 15.11.- 19.11.- 23.11.- 24.11.- 10.12.- 13.12.-1937.

Liners: 19.11.-10.12.-13.12-
 Dates of Examination of principal parts—Cylinders 19.11.37. Covers 19.11.-10.12. Pistons 10.12.-13.12 Piston rods

Connecting rods 9.11.-24.11.-10.12.-13.12. Crank and ~~xxxxx~~ shaft 15.11.-23.11.-10.12.-13.12. Intermediate shaft

Crank and ~~xxxxx~~ shafts, Material S.M.Steel Identification Mark Lloyd's 2828 H.B.21.11.37.

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case yes If so, state name of vessel Messrs. My. De Noord, Alblasserdam Yard Düsseldorf Report No.92

General Remarks (State quality of workmanship, opinions as to class, &c.)

These auxiliary engines have been constructed under special survey in accordance with the Society's Rules and Regulations as well as with the approved plan and the instruction thereto. The material used in the construction was found to be good and the workmanship satisfactory. These auxiliary engines have been tested on Maker's test bed in the presence of the undersigned under full load during 7 hours and 10% overload during 1 hour and was found working satisfactorily during these trials. After trials all working parts have been opened out for examination and were found in good condition.

The main engine is also being built by Messrs. Humboldt-Deutzmotoren.

A copy of this report has been sent to Hongkong Office.

The fusion welded bed plates have been manufactured under survey in accordance with the approved plan No. 714902, date of approval 3.6.38.

Identification marks: 3254 H.B. 20.5.38. 3327 H.B. 16.6.38.

The amount of Fee £ :	When applied for,
	19.....
Travelling Expenses (if any) £ :	When received,
	19.....

M. Friggemann
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 20 JAN 1939

Assigned

See HKG J.C. Rpt. 8242



1m.2.38.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)