

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Received at London Office

APR 11 1938

Date of writing Report 1.4.38. 19 When handed in at Local Office 6.4.38. 19 Port of Düsseldorf

No. in Survey held at Cologne
Reg. Book.Date, First Survey 17.1.38. Last Survey 31.3.38. 19
Number of Visits 6Single
on the Twin
Triple
Quadruple
Screw vessel

M. Hainigsm

Tons { Gross
Net

Built at Capelle

By whom built A. Vuyk & Zoon

Yard No. 646 When built 1938

Owners

Port belonging to

Eng. 499689-90

Oil Engines made at Cologne

By whom made

Humboldt-Deutzmotoren A.G. xxx

When made 1938

Generators made at

By whom made

Contract No.

When made

No. of ~~Set~~ 1 aux Engine Brake Horse Power 25 Nom. Horse Power as per Rule 8.5 7.2 Total Capacity of Generators Kilowatts

OIL ENGINES, &c. Type of Engines Heavy oil engine O.M.Z. 117 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 125 mm Length of stroke 170 mm No. of cylinders two No. of cranks two

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 178 mm Is there a bearing between each crank yes

Revolutions per minute 750 Flywheel dia. 600 mm Weight 178 kg Means of ignition sol. inject. Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 70 mm Crank pin dia. 75 mm Crank Webs Mid. length breadth 102 mm Thickness parallel to axis 45 mm Mid. length thickness 45 mm Thickness around eyehole

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

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. one 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 522 lts./h at 1275 r.p.m.

Air Compressors, No. No. of stages Diameters Stroke Driven by
Scavenging Air Pumps, No. two Diameter 220 mm Stroke 87 mm Driven by the engine itself

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. one Total cubic capacity 30 ltrs Internal diameter 191 mm thickness 6.5 mm

Seamless, lap welded or riveted longitudinal joint seamless Material S.M. Steel Range of tensile strength 55-61.3 kg/mm² Working pressure by Rules 35 kg/cm²

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 620580 A 19.8.37 Receivers 3436 7.7.33 Separate Tanks

SPARE GEAR as per Rules

The foregoing is a correct description,

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.



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Lloyd's Register
Foundation

010012-010023-0306

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

17.1.- 24.1.- 3.2.- 4.3.- 16.3.-, 31.3.-

Dates of Examination of principal parts—Cylinders 4.3.-31.3. Covers 4.3.-31.3.- Pistons 31.3. Piston rods

Connecting rods 24.1.-3.2.-31.3. Crank and Flywheel shaft 17.1.-16.3.-31.3.- Identification Marks: Lloyd's 3055 H.B.16.3.

Crank and Flywheel shafts, Material S.M.Steel Identification Mark

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case If so, state name of vessel Messrs. Levers Pacific Plantations, S. Düsseldorf Report 90.

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

This auxiliary engine has been constructed under special survey with the Society's Rules and Regulations as well as with the approved plan and the instructions thereto. The material used in the constructions was found to be good and the workmanship satisfactory. The auxiliary engine has 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 Rotterdam Surveyors.

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

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

Committee's Minute TUE. 25 OCT 1938 Assigned See F.E. mark