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Rpt. 4c.

Auxiliary Engine

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Received at London Office

MAR 29 1938

No. 236.

Date of writing Report 22.3.38 When handed in at Local Office 29.3.38 Port of Düsseldorf

No. in Survey held at Cologne Date, First Survey 11.9.37. Last Survey 22.3.38. 19
Reg. Book. Number of Visits 10

Single
on the Tug
Triple
Quadruple

Screw vessel motor tanker "B. P. SPIRIT"

Tons { Gross
Net

Built at A Kinderdyk

By whom built L. Smit & Zoon

Yard No. 892 When built 1938

Owners Union Lighterage Comp. Ltd.

Port belonging to London

Oil Engines made at Cologne

By whom made Humboldt-Deutzmotoren A.G.

Eng. 502459

Contract No. 496725

When made 1938

Generators made at

By whom made

Contract No.

When made

No. of sets 2 aux. Engine Brake Horse Power 2x8 Nom. Horse Power as per Rule 2x2.3 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c. Type of Engines Heavy oil engine MAH 714 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 100 mm Length of stroke 140 mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 252 mm Is there a bearing between each crank yes

Revolutions per minute 1250 Flywheel dia. 2x650mm Weight 2x64 kg. Means of ignition sol. inject Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 60 mm Crank pin dia. 62 mm Crank Webs Mid. length breadth 95mm Thickness parallel to axis 39mm Mid. length thickness 39mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thickness of cylinder liners 11 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

Cooling Water Pumps, No. none Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 pump driven by an eccentric capacity 43 lts/h.

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

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate

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 214038 A 1.10.37 Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR As per Rules.

The foregoing is a correct description,

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.



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Foundation

005618-005634-0333

Dates of Survey while building { During progress of work in shops - - } 11.9.- 10.12.-14.12.37. 9.2.-10.2.-19.2.-21.2.-10.3.-18.3.-22.3.38.
{ During erection on board vessel - - - }
Total No. of visits

Liners 10.2.-21.2.10.3.22.3
Dates of Examination of principal parts—Cylinders 10.2.-10.3. Covers 10.2., 21.2., 10.3., 22.3., Pistons 21.2.-22.3. Piston rods
Connecting rods 10.12.-14.12.-21.2.-22.3. Crank ~~XXXXXXXX~~ shafts 11.9.-9.2.-21.2.-10.3.-22.3.- Intermediate shafts
Crank and ~~XXXXXXXX~~ shafts, Material Mangan Steel Identification Marks Lloyd's 2951 H.B. 9.2.38. 3044 H.B.10.3.38.
Intermediate shafts, Material Identification Marks
Identification marks on Air Receivers

Is this machinery duplicate of a previous case yes If so, state name of vessel Messrs. Victoria Shipyards Yard 237 Düsseldorf Report 144.

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

This auxiliary engine has been constructed under special survey in accordance with the Society's Rules and Regulations as well as with the approved plan and the instructions thereto. The material used in the construction 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. Kingemann
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 14 MAR 1939

Assigned

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