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Auxiliary

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 187

Received at London Office

AUG 25 1937

Date of writing Report 19.8.37, When handed in at Local Office 21.8.37 Port of Düsseldorf

No. in Survey held at Cologne
Reg. Book.

Date, First Survey 7.7.37

Last Survey 18.8. 1937

Number of Visits 5

m²

Single
on the Twin
Triple
Quadruple
Screw vessel

Tons { Gross
Net

Built at Capelle an der Issel

By whom built Messrs. A. Vuyk and Zn.

Yard No. 642

When built 1937

Owners

Port belonging to

Oil Engines made at Cologne

By whom made Messrs. Humboldt-Deutz-
motoren A.G.

Contract No. 453730 When made 1937

Generators made at

By whom made

Contract No. When made

No. of Sets 1 aux. Engine Brake Horse Power 10 Nom. Horse Power as per Rule 2,86 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine M.A.H. 716 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 120mm Length of stroke 160mm No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 296mm Is there a bearing between each crank yes

Revolutions per minute 1000 Flywheel dia. 2x730mm Weight 2x115 kg Means of ignition sol. inj. Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 70mm Crank pin dia. 75mm Crank Webs Mid. length breadth 100mm Thickness parallel to axis
as fitted 70mm Mid. length thickness 42mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 15mm
as fitted Thickness around eyehole

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. 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 37 ltrs/h.

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

Scavenging Air Pumps, No. Diameter Stroke Driven by

12.3
20

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

12.7

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

310

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

ty's

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

eto.

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 214039 28.11.35 Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR as per Rules.

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The foregoing is a correct description,

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.

Heat



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Foundation

008473-008481-0097

Dates of Survey while building	{	During progress of work in shops - -	7.7.- 16.7.- 20.7.- 30.7.- 18.8.37.
		During erection on board vessel - - -	
		Total No. of visits	linear 7.7. 20.7. 30.7. 18.8.37.

Dates of Examination of principal parts—Cylinders 7.7.37 *Covers* 7.7.-20.7.- *Pistons* 20.7.-18.8.37 *Piston rods* 18.8.

Connecting rods 30.7.-18.8.37 Crank and Flywheel shaft 7.7.-20.7.-18.8.37 Intermediate shaft.

Crank and Flywheel shafts, Material Mangan. Steel

Identification Mark LLOYD'S 528 H.K.7.7.37.

Intermediate shafts, Material

Identification Marks

Is this machinery duplicate of a previous case yes If so, state name of vessel Messrs. R. & W. Hawthorn Leslie & Co. Yar
Düsseldorf Report 108.

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 and 10% overload during 8 hours 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 for the same vessel will also be constructed at the works of Messrs.

Humboldt-Deutzmotoren A.G., Köln-Deutz.

A copy of this report has been forwarded to Rotterdam Surveyors.

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

Hb. Jünger
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 25 MAR 1938

Assigned

See Rot. J.E. 26650



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