

Auxiliary

for London
Rot. Rpt. No. 27943 d.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 222

Received at London Office FEB 24 1938

Date of writing Report 17.2. 1938 When handed in at Local Office 21.2. 1938 Port of D ü s s e l d o r f
No. in Survey held at C o l o g n e Date, First Survey 15.11. 37. Last Survey 17.2. 1938.
Reg. Book. Number of Visits 6

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel motor tanker " B. P. S P I R I T " Tons { Gross _____ Net _____

Built at Kinderdijk By whom built N.V.L.Smit & Zoon, Yard No. 892 When built 1938

Owners Union Lightering Comp. Ltd. Port belonging to London

Oil Engines made at C o l o g n e By whom made Humboldt-Deutzmotoren AG Engine No. 492556/57 When made 1938

Generators made at _____ By whom made _____ Contract No. _____ When made _____

~~xxxxxx~~ Aux. Engine Brake Horse Power 25 Nom. Horse Power as per Rule 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 170mm 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 kgs Means of ignition sol. inject Kind of fuel used on test bed gas oil

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

Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule _____ as fitted _____ 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 ~~xxxxxx~~ 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 rev. per min.

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:—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 620580 A 19.8.37 Receivers _____ Separate Tanks _____

SPARE GEAR As per Rules

The foregoing is a correct description,
Humboldt-Deutzmotoren

[Signature]
Aktiengesellschaft

Manufacturer.



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Foundation

005618-005634-0331

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6735
Rpt

Dates of Survey while building { During progress of work in shops - - } 15.11., 24.11., 17.1., 24.1., 3.2., 17.2.
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders 24/1, 17/2, Covers 24/1, 17/2, Pistons 17/2 Piston rods

Connecting rods 24/1, 3/2, 17/2, Crank ~~and~~ shafts 24/11, 24/1, 17/2 Intermediate shafts

Crank and Flywheel shafts, Material S.M. Steel Identification Marks LLOYD'S 2933 H.B. 24.1.38

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 Levers ~~Bank~~ Pacific Plantations, Sidne
Düsseldorf Report No. 90

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 plans 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 Makers' test bed in the presence of the undersigned under full load during 7 hours and 10 % overload during 1 hour and was found working satisfactory 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 forwarded to the Society's Rotterdam Surveyors.

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

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

M. J. Jüngemann.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 14 MAR 1939
 Assigned See FE machy rpt

