t. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15235

Received at London Office 19 APR 1938

te of writing Report 12 April 1938 When handed in at Local Office 19 Port of Amsterdam

o. in Survey held at Hengelo Date, First Survey 14 April 37. Last Survey 7 April 1938
g. Book. Number of Visits 6

576 on the Single / Twin / Triple / Quadruple Screw vessel M.V. "BARENDRECHT" Tons Gross 9385 Net 5617

uilt at Odense By whom built Odense's Staalskibsværft's Yard No. 71 When built 1938

wners N.V. Phs. van Ommeren's Scheepv. Bedrijf. Port belonging to Rotterdam.

il Engines made at Hengelo By whom made Stork Bros Contract No. When made 1938

enerators made at Odense By whom made Thomas B. Thrige Contract No. When made 1938

o. of Sets one Engine Brake Horse Power 25. Nom. Horse Power as per Rule 68 Total Capacity of Generators 16 Kilowatts.

L ENGINES, &c.—Type of Engines Stork-Ganz 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 70085 Diameter of cylinders 150 m/m. Length of stroke 185 m/m No. of cylinders 2 No. of cranks 2

pan of bearings, adjacent to the Crank, measured from inner edge to inner edge 377 m/m. Is there a bearing between each crank no

evolutions per minute 650 Flywheel dia. 1050 m/m Weight 370 kg Means of ignition Jetless Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule ~~as fitted~~ 86 as fitted 90 m/m Crank pin dia. 90 m/m Crank Webs Mid. length breadth 505/75 Mid. length thickness 115 m/m Thickness parallel to axis shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule ~ as fitted ~ **Intermediate Shafts**, diameter as per Rule ~ as fitted ~ Thickness of cylinder liners No 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 no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged

Cooling Water Pumps, No. One 35 l/min Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size one 13 l/minute

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

Scavenging Air Pumps, No. ~ Diameter ~ Stroke ~ Driven by ~

IR 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 D.C. ventilated, drip proof

Pressure of supply 110 volts. **Full Load Current** 140 Amperes. **Direct or Alternating Current** direct.

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 yes.

Generators, are they compounded as per rule yes. is an adjustable regulating resistance fitted in series with each shunt field yes. Are all terminals accessible, clearly marked, and furnished with sockets yes.

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

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

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

PLANS. Are approved plans forwarded herewith for Shafting E2.7.37 Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR as per Rules.

The foregoing is a correct description,

MACHINEFABRIEK GEBR. STORK & Co. N.V

Manufacturer.

Dates of Survey while building { During progress of work in shops - - / During erection on board vessel - - - / Total No. of visits } 14 April 19-29 July 27 Aug 3 Sept. 1930 - 7 April

23/5 - 17/6 - 24/6 - 9/7 - 12/7 38

6 + 5 = 11

Dates of Examination of principal parts—Cylinders 19-29 July Covers 29 July 27 Aug Pistons 29 July 27 Aug Piston rods ~

Connecting rods 3 Sept Crank and Flywheel shafts 3 Sept Intermediate shafts ~

Crank and Flywheel shafts, Material S M S Identification Marks 11320 4404 D.S S.L. 29.9.86

Intermediate shafts, Material ~ Identification Marks ~

Identification marks on Air Receivers ~

Is this machinery duplicate of a previous case ✓ If so, state name of vessel

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

The engine has been built in accordance with the approved plan Secretary's letter and the Society's rules
Workmanship throughout good.

The two engine has been shipped to Odense and will be fitted aboard Messrs Odense's Staalskibsaerft. Yard No 71. (M.V. BARENDRECHT)

The above mentioned generator set has been fitted on board the vessel in accordance with the rule requirements and on completion it was tested in accordance with the rules and found satisfactory.

SURVEYOR TO LLOYD'S
REGISTER OF SHIPPING

The amount of Fee ... ... £ 50 — : When applied for, 13-4-1938

Travelling Expenses (if any) £ 5 — : When received, 19

Fees paid — See Lon. letter T 21/6.38. ok

Committee's Minute TUE. 9 AUG 1938

Assigned See F.E. mchy pl

Surveyor to Lloyd's Register of Shipping.

1m.5.37.—Transfer.

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