REC'D NEW YORK NOV 16 1928

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 430.

Received at London Office 1 DEC 1928

of writing Report Nov 6 1928 When handed in at Local Office ..... 19.... Port of Cleveland Ohio

in Survey held at Lorain Ohio. Date, First Survey June 4 Last Survey Sept 6 1928

Book. Number of Visits ✓

953 on the ~~Single~~ Twin ~~Triple~~ ~~Quadruple~~ Screw vessel Yanker "MARTHA E. ALLEN" Tons Gross 2935 Net 1994

t at Lorain Ohio By whom built American Shipbuilding Co Yard No. 803 When built 1928

ners Lake Yankers Corporation Port belonging to Whiting Ind.

Engines made at Amsterdam By whom made W.V. Kromhout Motorem Fa Contract No. ✓ When made 1928

nerators made at Sunderland. By whom made Sunderland Forge & Eng Co Contract No. ✓ When made 1928

. of Sets one Engine Brake Horse Power 22. Nom. Horse Power as per Rule 6. Total Capacity of Generators 10. Kilowatts.

ENGINES, &c.—Type of Engines Kromhout oil engine 2 or 4 stroke cycle 2 Single or double acting D.

ximum pressure in cylinders 16 Kg cm² Diameter of cylinders 230 m/m Length of stroke 240 m/m No. of cylinders one No. of cranks one

n of bearings, adjacent to the Crank, measured from inner edge to inner edge 264 m/m. Is there a bearing between each crank

volutions per minute 440 Flywheel dia. 1100 m/m Weight 600 kg. Means of ignition hot bulb. Kind of fuel used Diesel oil

ank Shaft, dia. of journals as per Rule approved. as fitted 85 m/m Crank pin dia. 85 m/m Crank Webs Mid. length breadth 120 m/m Thickness parallel to axis ✓ Mid. length thickness 52 m/m shrunk Thickness around eyehole Solid

ywheel Shaft, diameter as per Rule ✓ as fitted ✓ **Intermediate Shafts**, diameter as per Rule ✓ as fitted ✓ Thickness of cylinder liners ✓

a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced feed.

e the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled

oling Water Pumps, No. one. Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

ubricating Oil Pumps, No. and size one

r Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

avenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

R RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes.

n the internal surfaces of the receivers be examined Yes. What means are provided for cleaning their inner surfaces dirt

there a drain arrangement fitted at the lowest part of each receiver Yes.

gh Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓

amless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

arting Air Receivers, No. one Total cubic capacity 40 L. Internal diameter 203 m/m thickness 4 m/m. ✓

amless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28/32 tons Working pressure by Rules 815 ✓ per sq in

ECTRIC GENERATORS:—Type Sunderland Forge Compound wound.

ressure of supply 110 volts. **Load** 90 Amperes. **Direct ~~or Alternating~~ Current** Yes.

alternating current system, state frequency of periods per second ✓

as the **Automatic Governor** been tested and found efficient when the whole load is suddenly thrown on or off Yes.

enerators, do they comply with the requirements regarding rating Yes. are they compound wound Yes

e they over compounded 5 per cent. Yes., if not compound wound state distance between each generator ✓

an adjustable regulating resistance fitted in series with each shunt field Yes. Are all terminals accessible, clearly marked, and furnished with sockets Yes

e 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

ANS. Are approved plans forwarded herewith for Shafting All surveyor's (If not, state date of approval) Report 10945. Amsterdam. Receivers ..... Separate Tanks .....

ARE GEAR

See surveyor's Report - 10945. Amsterdam.

J.S.H.

The foregoing is a correct description,

The American Ship Bldg Co Manufacturer.

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010933 - 010942 - 0170

ENGLAND

Dates of Survey while building { During progress of work in shops - - } See Surveyor's Report - 10945 Amsterdam
{ During erection on board vessel - - - } from June 4 to September 6. 1925.
{ Total No. of visits }

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

Connecting rods ..... Crank and Flywheel shaft Lloyds 1340. MAY. 4/10/27. Intermediate shaft ✓

Crank and Flywheel shaft, Material Steel Identification Mark ..... Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Oil Engine 4269. Amst. Ref 10

General Remarks (State quality of workmanship, opinions as to class, &c. The above engine has been built under Special Survey & in accordance with the Rules & approved plans. (See Amsterdam Surveyor's Report No 10975) It has been fitted on board in a satisfactory manner, found in order when tried out under working conditions. All Gear has been furnished as required by the Rules.

The amount of Fee ... ... £ ✓ : : { When applied for, ✓ ..... 19.....

Travelling Expenses (if any) £ ✓ : : { When received, ✓ ..... 19.....

E Drummond
Surveyor to Lloyd's Register of Shipping.

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

Committee's Minute NEW YORK NOV 21 1928

Assigned See Report on form 4b

1m,7,26—Transfer.

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