

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 110416.

Received at London Office

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of writing Report 5 June 1928 When handed in at Local Office

19 Port of Amsterdam

in Survey held at Amsterdam

Date, First Survey 26/10/27 Last Survey 14/1 1928

Book.

Number of Visits 11

Single
on the Twin
Triple
Quadruple

Screw vessel American Ship Co. No. 803 Auxiliary Diesel Engine Tons Gross

Built at Cleveland

By whom built American Ship Co. Yard No. 803 When built 1924/28

Port belonging to

Engines made at Amsterdam By whom made Werkspoor Contract No. 2 When made 2

Generators made at By whom made Contract No. 2 When made

No. of Sets 1 Engine Brake Horse Power 100 Nom. Horse Power as per Rule 18 Total Capacity of Generators 2 Kilowatts.

L ENGINES, &c.—Type of Engines Auxiliary Diesel Engine 2 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders 35 kg/cm² Diameter of cylinders 320 mm Length of stroke 450 mm No. of cylinders 2 No. of cranks 2

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 430 mm Is there a bearing between each crank Yes

Revolutions per minute 150 Flywheel dia. 1600 mm Weight 3670 kg Means of ignition Self-ignition Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 185 mm Crank pin dia. 185 mm Crank Webs Mid. length breadth 290 mm Thickness parallel to axis 100 mm as fitted 185 mm Mid. length thickness shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule 4 Intermediate Shafts, diameter as fitted 4 Thickness of cylinder liners 4

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced lubrication

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

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

Lubricating Oil Pumps, No. and size One rotary pump Capacity 45 L per minute

Air Compressors, No. One No. of stages 3 Diameters 440 x 550 x 90 mm Stroke 220 mm Driven by crankshaft

Sucking Air Pumps, No. 2 Diameter 4 Stroke 4 Driven by 2

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

Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces air

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

High Pressure Air Receivers, No. 1 Cubic capacity of each 60 L Internal diameter 245 mm thickness 12 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Sm Steel Range of tensile strength 55-65 kg Working pressure by Rules 45 kg/cm²

Starting Air Receivers, No. 2 Total cubic capacity 4 Internal diameter 4 thickness 4

Seamless, lap welded or riveted longitudinal joint 2 Material 4 Range of tensile strength 4 Working pressure by Rules 4

ELECTRIC GENERATORS:—Type 2

Pressure of supply 4 volts. Load 4 Amperes. Direct or Alternating Current 4

If alternating current system, state frequency of periods per second 4

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off 4

Generators, do they comply with the requirements regarding rating 4 are they compound wound 4

Are they over compounded 5 per cent. 4, if not compound wound state distance between each generator 4

Is an adjustable regulating resistance fitted in series with each shunt field 4 Are all terminals accessible, clearly marked, and furnished with sockets 4

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched 4 Are the lubricating arrangements of the generators as per Rule 4

PLANS. Are approved plans forwarded herewith for Shafting 4 Receivers 4 Separate Tanks 4

PARTS: 1 cylinder, 1 cutwater pin, 4 m. bearing shaft, 1 set of m. bearing brass, 1 crankshaft,

1 set piston rings, 2 in and outlet valve chests (complete), 1 fuel valve chest, 1 starting air valve chest,

1 pin for outlet valve, 1 pin for starting air valve, 1 pin for fuel valve, 1 set copper rings

for valve chests, bolts and nuts for connecting rods, 1 set bottom end bracers, 1 set top end

bracer, 1 set valve lever, 4 L.O. compressor valves, 20 valves for L.O. M.O. 1 suction valve brass

complete, 1 delivery valve house for H.P. 10 valve and spacers for H.P., 12 piston rings for

each stage, 1 set bottom end bracer for compressor, 1 pin for top end for compressor, 20 air

valve tubes, 1 set of valves and spacers for fuel pump, 1 fuel pump plungers and bush,

escape valve, 1 set rubber rings.

The foregoing is a correct description,

WERKSPoor

Manufacturer.

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Dates of Survey while building { During progress of work in shops - - 26/10 17/11 5/12 28/1 17/2 24/2 28/2 12/3 26/3 24/4 16/5
During erection on board vessel - - -
Total No. of visits 11.

Dates of Examination of principal parts—Cylinders 26/10 - 12/3 Covers < Pistons 15/11 - 28/2 Piston rods 26/3 - 26/4
Connecting rods 26/3 - 26/4 Crank and Flywheel shaft 17/2 - 24/4 Intermediate shaft <

Crank and Flywheel shaft, Material Steel Identification Mark Lloyd's 2404 26.1.23 1549-6500
Intermediate shafts, Material < Identification Marks <
Span 1541.4.1. 12.4.28.1200-6510.

Is this machinery duplicate of a previous case No. If so, state name of vessel <

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

The engines have been made in accordance with the Rules, approved plans and Surveyor's letter, workmanship good.
The engines have been tested under full working conditions on test bench and satisfactory.

L. N. Bennett

The amount of Fee ... £ 180.-

Travelling Expenses (if any) £ :

When applied for,

19...

When received,

15.6.28

L. N. Bennett
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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