

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4080

Date of writing Report

19

When handed in at Local Office

19

Port of

Received at London Office

30 JUN 1941

GALVESTON

No. in Survey held at

Augsburg.

Date, First Survey

Last Survey

17/4

19 4/

Number of Visits

83569 on the <sup>Single</sup>  
Twin  
Triple  
Quadruple

Screw vessel

M/T. SKANDINAVIA

Tons

Gross

10044

Net

5786

Built at Hamburg.

By whom built

Deutsche Werft

Yard No. 231

When built 1939

Owners The Texas Co (Norway) A/S.

Port belonging to

Oslo.

Oil Engines made at Augsburg.

By whom made

M.A.N.

Contract No.

When made 1939

Generators made at

By whom made

"

Contract No.

When made 1939

No. of Sets 1

Engine Brake Horse Power

93

Nom. Horse Power as per Rule

Total Capacity of Generators

1 Diesel 55

Kilowatts.

1 Steam 35

OIL ENGINES, &amp;c.—Type of Engines Heavy oil

2 or 4 stroke cycle 4 Single or double acting S

Maximum pressure in cylinders

50 kg/cm<sup>2</sup>

Diameter of cylinders 220 mm

Length of stroke

330 mm

No. of cylinders 3

No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge

256 mm.

Is there a bearing between each crank

Yes

Revolutions per minute

400

Flywheel dia.

Weight

Means of ignition

Compressor

Kind of fuel used

Diesel oil

Crank Shaft, dia. of journals

as per Rule

as fitted

130 mm

Crank pin dia.

130 mm

Crank Webs

Mid. length breadth 240 mm

Thickness parallel to axis

Mid. length thickness

61 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 pressure lub.

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.

One, plunger type

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Yes

Lubricating Oil Pumps, No. and size

One gear wheel type

Air Compressors, No.

Submerged injection

No. of stages

Diameters

Stroke

One air compressor  
(3 stage) driven by  
Steam & diesel

Scavenging Air Pumps, No.

Diameter

Stroke

Driven by

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

Supplied from main air receivers

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.

None

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.

2 for main eng

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

115

volts.

Load

478

Amperes.

Direct or Alternating Current

D.C.

If alternating current system, state frequency of periods per second

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

Generators, do they comply with the requirements regarding rating

are they compound wound

Yes

are they over compounded 5 per cent.

Yes

if not compound wound state distance between each generator

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

PLANS. Are approved plans forwarded herewith for Shafting

(If not, state date of approval)

Receivers

Separate Tanks

SPARE GEAR In excess of rule requirements.

Galveston, April 1941. The diesel & steam electric generating sets generally examined & under working conditions & all found satisfactory.

Wm. Rennie

The foregoing is a correct description.

Manufacturer.



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Lloyd's Register  
Foundation

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Dates of Survey while building { During progress of work in shops - - }  
During erection on board vessel - - - }  
Total No. of visits

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

Connecting rods Crank and Flywheel shaft Intermediate shaft

Crank and Flywheel shafts, Material Identification Mark

Intermediate shafts, Material Identification Marks

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.)

1m. 9. 28 - Transfer.  
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

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

Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned  
TUE. 29 JUL 1941  
See Gal. No. 4080



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