

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11814

Received at London Office.

DEC 7

Date of writing Report 1st December 1945 When handed in at Local Office 19 Port of CopenhagenNo. in Survey held at Copenhagen & Skibst Date, First Survey 15th March 1945 Last Survey 30th March 1945 Number of Visits

Single on the Twin Triple Quadruple Screw vessel "FALSTRIA" Tons Gross 6992.78 Net 4234.42

Built at Skibst By whom built As Skibst Skibsværft Yard No. 98 When built 1945

Owners As Det Kongelige Højser Port belonging to Copenhagen

Engines made at By whom made As Burmeister & Wain Contract No. 3268-9-70 When made 1945

Generators made at Copenhagen By whom made As Vilan Contract No. 908/7-8-9 When made 1945

No. of Sets 3 Engine Brake Horse Power 3x200 Nom. Horse Power as per Rule 3x36 52.2 Total Capacity of Generators 405 Kilowatts.

OIL ENGINES, &c.—Type of Engine Vertical Diesel Frunk piston type 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 245 mm Length of stroke 400 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 303 mm Is there a bearing between each crank yes

Revolutions per minute 425 Flywheel dia. 1300 mm Weight 2317 kg Means of ignition compression Kind of fuel used heavy oil

Crank Shaft, dia. of journals as per Rule 147.1 mm as fitted 155 mm Crank pin dia. 155 mm Crank Webs Mid. length breadth 220 mm Thickness parallel to axis 78 mm shrunk Mid. length thickness 78 mm Thickness round eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 20 mm

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

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

Cooling Water Pumps, No. 1 sea w 504 mm - 1 fresh w 254 mm independent common for all 3 engines Is sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size one off on each engine 5.2 m³/hr.

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

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey Please Rep. 46 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 Drip proof ventilated

Pressure of supply 220 volts Full Load Current 614 Amperes Direct or Alternating Current direct

If alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full 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 and do the results comply with the requirements

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

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

SPARE GEAR as per Rules

The foregoing is a correct description,

AKTIESELSKABET

BURMEISTER & WAIN'S MASKIN-OG SKIBSBYGGERI

Manufacturer.

A. H. H. H.



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Lloyd's Register Foundation

004394-004404-0252

Dates of Survey while building
During progress of work in shops - - - 1/11-18/11-19/12-39-4/1-9/1-17/1-26/1-18/3-19/3-28/3-29/3-4/4-9/4-12/4-7/5-8/5-14/5-15/5-22/5-11/6-3/8-4/10
During erection on board vessel - - - 15/1-6/2-13/3-25/4-16/5-11/6-21/7-12/8-12/8-27/8-4/1-18/6-11/10-12/10-24/10-15/11-16/11-20/11-21/11-30/11-4/5
Total No. of visits 40.

Dates of Examination of principal parts—Cylinders... and Covers 19/3-29/3-40-24/10-4/5 Pistons 25/5-40 24/10-4/5 Piston rods. ✓

Connecting rods 1/11-18/11-39-4/1-9/1-40 Crank and Flywheel shafts 19/12-39-17/1-18/3-40 Intermediate shafts. ✓

Crank shaft { Material S. & W. Puzos steel Tensile strength 31.0 to 31.6 tons/in²
Elongation 36.4 to 37.4 % in 2" Identification Marks 440403 735147-48-99 C.V. 18-3-40

Flywheel shaft, Material. ✓ Identification Marks. ✓

Is this machinery duplicate of a previous case. ✓ Identification Marks. ✓

Identification marks on Air Receivers. ✓

Is this machinery duplicate of a previous case. yes ✓ If so, state name of vessel B.W. standard type 4.25 M.T.H.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above 3 generating sets have been constructed and fitted in accordance with the Rules, the approved plans and to our satisfaction.
The material used in construction has been tested as required by the Rules and the workmanship is good.

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

FRI. 1 FEB 1946

Committee's Minute.....

Assigned Lee Chan 1141815

Surveyor Lloyd's Register of Shipping.
Lloyd's Register Foundation