

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11814

Received at London Office

1 DEC 1945

pt. 4c.

Date of writing Report 1st December 1945 When handed in at Local Office 19 Port of Copenhagen

No. in Survey held at Copenhagen & Aalborg Date, First Survey 15th March 1945 Last Survey 30th March 1945

ing. Book. Single on the Twin Screw vessel. "FALSTRIA" Tons Gross 6992.78
Triple Net 4234.42

uilt at Aalborg By whom built As Aalborg Skibsreft Yard No. 98 When built 1945

wners As Det Ostasiatiska Kompagni Port belonging to Copenhagen

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

generators made at Copenhagen By whom made As Vilau Contract No. 9087-8-9 When made 1945

o. of Sets 3 Engine Brake Horse Power 3x200 Nom. Horse Power as per Rule 3x36 Total Capacity of Generators 405 Kilowatts.

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

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

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

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

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

lywheel Shaft, diameter as per Rule 155 mm Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 20 mm

Is there 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

ooling Water Pumps, No. 1 sea w 50 l/min - 1 port w 25 l/min independent & common for all 3 engines 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 Drift 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 yes

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 -

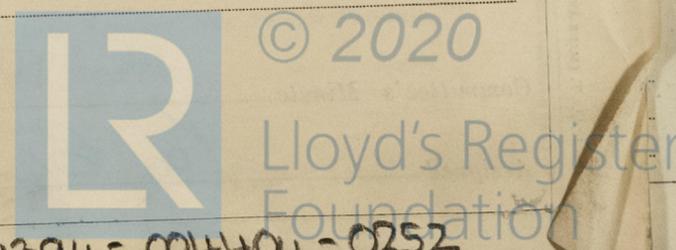
If the generators are 100 kw. or over have they been built and tested under survey yes

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 SKIBSBYGERI Manufacturer.

A. Hornum



004394-004404-0252

Dates of Survey while building
 During progress of work in shops - 1/11-18/11-19/12-39-4/1-9/1-17/1-20/1-18/3-19/3-28/3-29/3-4/4-9/4-12/4-7/5-8/5-14/5-15/5-22/5-11/6-3/8-4/0
 During erection on board vessel - 15/1-6/2-13/3-25/4-16/5-11/6-21/7-12/8-12/9-27/10-4/1-18/6-11/10-12/10-24/10-15/11-16/11-20/11-21/11-30/11-4/5
 Total No. of visits 40.

Dates of Examination of principal parts—Cylinders *once* 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. Cl. Puzol steel* Tensile strength 31.0 to 31.6 *tons/in²*
 Elongation 36.4 to 37.4 % in 2" Identification Marks *LLOYD'S 735197-98-99 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 *See Com 114815*

J. Langford
 Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation

Im. 11, 42.-T. (MADE AND PRINTED IN ENGLAND).
 (The Surveyors are requested not to write on or below the space for Committee Minute.)