

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12085

13 JAN 1947

pt. 4c.

Date of writing Report 9/1 1942 When handed in at Local Office

Received at London Office

Port of

Date, First Survey

Last Survey

Number of Visits

No. in Survey held at

on the Single Twin Triple Quadruple Screw vessel

ANNIE JOHNSON (blamed)

Tons Gross 4913 Net 2798

By whom built

a/s Götaverken

Yard No. When built 1925

By whom made

a/s Bismarck & Wain

Contract No. 3952 When made 1946

By whom made

a/s Silan

Contract No. 56397 When made 1946

Engine Brake Horse Power

180

Nom. Horse Power as per Rule

45

Total Capacity of Generators 112 Kilowatts

OIL ENGINES, &c.—Type of Engines 325 MTH Diesel trunk piston, 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 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 315 mm Is there a bearing between each crank yes

Revolutions per minute 500 Flywheel dia. 1300 mm Weight 1525 kg Means of ignition compass Kind of fuel used heavy oil

Crank Shaft, dia. of journals as per Rule 146 mm as fitted 170 mm Crank pin dia. 155 mm Crank Webs Mid. length breadth 275 mm shrunk Mid. length thickness 90 mm Thickness parallel to axis 90 mm Thickness round eye hole 72.5 mm

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted 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 forced

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

Lubricating Oil Pumps, No. and size 1 off 6 to 1/2

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 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 509 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, and the particulars of the set as fitted are as approved for torsional vibration characteristics.

AKTIESELSKABET BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI

Manufacturer.

Lloyd's Register

003162-003174-0256

Dates of Survey while building { During progress of work in shops - - 15/6. 30/6 45. 21/11 45. 4/1. 18/1. 2/3. 20/3. 15/4. 17/4. 14/6 46. 7/1. 8/1 47
During erection on board vessel - -
Total No. of visits.

Dates of Examination of principal parts—Cylinders with Covers 15/4. 17/4 46. 8/1 47 Pistons 8/1 47 Piston rods ✓

Connecting rods 15/6. 30/6 45. 21/11 45. 20/3 46 Crank and Flywheel shafts 4/1. 18/1. 2/3. 15/4 46 Intermediate shafts ✓

Crank shaft { Material S. M. J. steel Tensile strength 30.7 5/10
Elongation 36.4 % Identification Marks Lloyd's No 6393 K 17. 15. 4. 46

Flywheel shaft, Material Identification Marks ✓

Is this machinery duplicate of a previous case No Identification Marks ✓

Identification marks on Air Receivers ✓

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.) This engine has been constructed under Special Survey and in accordance with the Builder's Rules, the approved plan and the Surveyor's letter E dated 29/7 46 in which letter approval also was given for the torsional vibration characteristics. The material has been tested and examined as per Rules and found satisfactory and the workmanship is good. Engine with generator tested under working conditions and found satisfactory.

The set is intended for installation in the 4 1/8 "Aurora Johnson" at Gottenburg.

The amount of Fee { ENGINE. £v. 225.00
GENERATOR. 100.00
Travelling Expenses (if any) £ : : When applied for 19
When received 19

Committee's Minute FRI. 12 JUN 1947
Assigned See lot 15322

Surveyor to Lloyd's Register of Shipping.

