

12093.

No. 12093

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Received at London Office

25 JAN 29 MAR 1947

of writing Report 22-1 1947 when made in at Local Office 19 Port of Copenhagen
 in Survey held at Copenhagen Date, First Survey 15/6 1943 Last Survey 20-1 1947
 Book 181 on the Twin Screw vessel "CANADA" Number of Visits 24
 at Gøteborg By whom built A/B Gøteborgskværn Yard No. When built 1921
 Engines made at Copenhagen By whom made A/S Burmeister & Wain Contract No. 4683-45 When made 1946
 generators made at Copenhagen By whom made A/S Titan Contract No. 152398-9 When made 1946
 of Sets 3 Engine Brake Horse Power 3 x 180 Nom. Horse Power as per Rule 3 x 45 Total Capacity of Generators 3 x 112 Kilowatts.

ENGINES, &c.—Type of Engines 325 MTH. TRUNK PISTON, SOLID INJECTION 2 or 4 stroke cycle 4 Single or double acting single
 minimum pressure in cylinders 49 kg/cm² Diameter of cylinders 245 mm Length of stroke 400 mm No. of cylinders 3 No. of cranks 3
 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 509 Weight 1525 kg Means of ignition compression Kind of fuel used heavy oil
 Crank pin dia. 155 mm Crank Webs Mid. length breadth 275 mm Thickness parallel to axis 90 mm
 as fitted 170 mm Mid. length thickness 90 mm Thickness round eyebolt 72.57 mm
 Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 20 mm
 governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubrication
 the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged
 Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size one of for each engine, 6 to 10
 Compressors, No. No. of stages Diameters Stroke Driven by
 Sucking Air Pumps, No. Diameter Stroke Driven by
 RECEIVERS:—Have they been made under Survey State No. of Report or Certificate
 each receiver, which can be isolated, fitted with a safety valve as per Rule
 the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 where a drain arrangement fitted at the lowest part of each receiver
 Pressure Air Receivers, No. Cubic capacity of each Internal diameter Thickness
 unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 Sucking Air Receivers, No. Total cubic capacity Internal diameter thickness
 unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 ELECTRIC GENERATORS:—Type Dip pole ventilated
 pressure of supply 220 volts Full Load Current 509 Amperes Direct or Alternating Current Direct
 alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 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 they so spaced
 all terminals accessible, clearly marked, and furnished with sockets yes Are the lubricating arrangements of the generators as per Rule yes
 shielded that they cannot be accidentally earthed, short circuited, or touched yes and do the results comply with the requirements
 the generators are under 100 kw. full load rating, have the makers supplied certificates of test yes
 the generators are 100 kw. or over have they been built and tested under survey yes
 Are approved plans forwarded herewith for Shifting yes Receivers Separate Tanks
 ARE GEAR As per Rules.

The foregoing is a correct description,
 AKTIESELSKABET

A/S BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI

Manufacturer.

and the particulars of the generator sets as constructed
 and assembled as as approved for torsional vibration
 characteristics.

Lloyd's Register
 Foundation

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During progress of work in shops - 1943: 15/6, 30/6, 27/7, 10/8, 1945: 20/9, 8/10, 21/11, 1946: 12/3, 2/4, 12/4, 26/6, 19/8, 25/9, 6/9, 15/11, 16/11, 18/11, 23/11, 1947: 7/1, 11/1, 13/1
During erection on board vessel -
Total No. of visits

Examination of principal parts—Cylinders WITH Covers 15/11, 16/11, 15/11, 4/12, 15/12, 17/12, 18/12, 4/1, 8/1 Pistons 18/11, 4/1, 8/1 Piston rods
Crank and Flywheel shafts Intermediate shafts
Tensile strength 30.5 6/10
Identification Marks 440403 N = 6484-5-6 KL 6.11.46
Identification Marks
Identification Marks
Machinery duplicate of a previous case
Identification marks on Air Receivers

Machinery duplicate of a previous case: yes. If so, state name of vessel "Amie Johnson", "Arise Johnson"
RAL REMARKS (State quality of workmanship, opinions as to class, &c.) These engines are being con-

structed under special survey and in accordance with the Society's rules, the approved plans and the Secretary's letter E dated 26/7 46, which letter approval also was given to the torsional vibration characteristics. The material has been tested and examined and found satisfactory and the workmanship is good. Engines with generators tested in workshop under working conditions and found satisfactory.

The generators sets are intended for installation in the "Canada" at present lying at Gillingham.

See Bot. 15177

Amount of Fee ... £ 675.00
When applied for 19
When received 19
GENERATORS: 300.00
When applied for 19
When received 19
Expenses (if any) £

Charliffe
Surveyor to Lloyd's Register of Ships



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See Bot 15263