

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10098.

Date of writing Report 24/12 36 When handed in at Local Office 19 Port of Copenhagen Received at London Office 30 DEC 1936

No. in Survey held at Copenhagen Date, First Survey 27/4 1935 Last Survey 10/6 1936
Reg. Book. 8856 on the Single Twin Triple Quadruple Screw vessel "JOHANNA THORDEN" Number of Visits 17

Built at Landskrona By whom built A. Örsundsvall Yard No. 41 When built 1936
Owners Port belonging to

Oil Engines made at Copenhagen By whom made Kimmich & Wain Contract No. When made 1936
Generators made at Odense By whom made Thomas B Thing Contract No. When made 1936

No. of Sets 3 Engine Brake Horse Power 105 Nom. Horse Power as per Rule Total Capacity of Generators 210 Kilowatts.

IL ENGINES, &c.—Type of Engines DIESEL, TRUNK TYPE, SOLID INJECT. 2 or 4 stroke cycle 2 Single or double acting single
Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 220 mm Length of stroke 370 mm No. of cylinders 2 No. of cranks 2
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 276 mm Is there a bearing between each crank yes
Revolutions per minute 350 Flywheel dia. 1200 mm Weight 280 kg Means of ignition compression Kind of fuel used oil

Crank Shaft, dia. of journals as per Rule 128 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 248 mm Thickness parallel to axis 85 mm
as fitted 150 mm (75 mm under belt) Mid. length thickness 85 mm shrunk Thickness around eyehole 67.5 mm

Flywheel Shaft, diameter as per Rule 128 mm Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 18 mm
as fitted 150 mm as fitted

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. 1 off on each engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
Lubricating Oil Pumps, No. and size 1 off 5 m³/hr on each engine

Air Compressors, No. 3 No. of stages 2 Diameters 280-250 mm Stroke 190 mm Driven by oil engine
Scavenging Air Pumps, No. one on each engine Diameter rotary Stroke 26.5 m³/min Driven by oil engine

IR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes
Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces yes
Is there a drain arrangement fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. 1 Cubic capacity of each 100 litres Internal diameter 336 mm thickness 10 mm
Seamless, lap welded or riveted longitudinal joint lap welded Material S.17 steel Range of tensile strength 27.35 kg/cm² Working pressure by Rules 38.7 kg/cm²

Starting Air Receivers, No. 1 Total cubic capacity 100 litres Internal diameter 336 mm thickness 10 mm
Seamless, lap welded or riveted longitudinal joint lap welded Material S.17 steel Range of tensile strength 27.35 kg/cm² Working pressure by Rules 38.7 kg/cm²

ELECTRIC GENERATORS:—Type D.C. drip proof, ventilated
Pressure of supply 220 volts. Load 318 Amperes. Direct or Alternating Current direct

If alternating current system, state frequency of periods per second yes
Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes

Generators, do they comply with the requirements regarding rating yes are they compound wound yes
are they over compounded 5 per cent. yes, if not compound wound state distance between each generator 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

PLANS. Are approved plans forwarded herewith for Shafting yes Receivers yes Separate Tanks yes
(If not, state date of approval)

SPARE GEAR as per accompanying list.

The foregoing is a correct description.
AKTIESELSKABET
BORMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI
A. Hømmølle

Manufacturer.



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During progress of work in shops - 27/4 9/5 8/6 17/6 11/12 12/12 1935; 7/2 7/4 9/4 8/4 15/4 22/4 28/4 27/4 2/5 9/5 10/6 1936
 During erection on board vessel -
 Total No. of visits 17

Dates of Examination of principal parts—Cylinders *with* Covers *2/4 6/4 36* Pistons *24 2* Piston rods
 Connecting rods *27/4 6/5 12/12 35* Crank and Flywheel shaft *11/2 35; 17/2 8/4 36* Intermediate shaft
 Crank and Flywheel shafts, Material *S.M. steel* Identification Mark *LLOYD'S 3150-1-2 8A 8.4.36*
 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.)
These auxiliary oil engines are of known dimensions & design and have been built under special survey and in accordance with the Society's Rules, the approved plans and the Surveyor's letter E dated 9/12 1935.

The material has been examined and tested as required by the Rules and found good, the workmanship is of good description throughout, and a comparison of the engines with their generators was tested under working conditions and found to work satisfactorily.

The Copenhagen Report of the main engines for this vessel is numbered 10,000.

This report is forwarded in accordance with the Surveyor's letter B dated 11-12-36.

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

C. K. H. S. P.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned