

IVED

1950
4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

13149
No. 1950

Received at London Office
of writing Report 10th July 1950 When handed in at Local Office 19 Port of Copenhagen
of open in Survey held at Copenhagen Date, First Survey 23rd May Last Survey 11th July 1950
Book. on the Single Triple Quadruple Screw vessel
at Copenhagen By whom built P. Just Yard No. 597 When built
Engines made at Copenhagen By whom made Asbjørnsen & Søn ENGINES 4630 (SMIT) Contract No. 4632 When made 1950
rators made at By whom made Contract No. When made
of Sets 2 Engine Brake Horse Power 345 M.N. as per Rule 2 x 86 Total Capacity of Generators Kilowatts
at intended for essential services Yes

ENGINES, &c.—Type of Engines Heavy oil engines, horizontal, Type 4TH 40 4 stroke cycle 4 Single or double acting single
imum pressure in cylinders 49 kg/cm² Diameter of cylinders 245 1/4 Length of stroke 400 1/2 No. of cylinders 7 No. of cranks 7
n indicated 7.2 kg/cm² Firing order in cylinders 1-2-4-6-7-5-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 315 1/4
ere a bearing between each crank Yes Moment of inertia of flywheel 1135 kgm² Revolutions per minute 425
heel dia. 1300 1/4 Weight 1226 kg Means of ignition compression Kind of fuel used F.P. 60 sec 150°F
as per Rule 151 1/4 Crank pin dia. 170 1/4 Crank Webs Mid. length breadth 278 1/4 Thickness parallel to axis 90 1/4
as fitted 170 1/4 Mid. length thickness 90 1/4 shrunk Thickness round eyehole 72.5 1/4
wheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)
as fitted

means provided to prevent racing of the engine when decoupled Yes Means of lubrication forced Kind of damper if fitted
the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

ling Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

ricating Oil Pumps, No. and size 1 of 7.3 tons/hour

Compressors, No. 1 of 250 1/4 No. of stages 2 Diameters 216 1/4 - 192 1/4 Stroke 160 1/4 Driven by the engine

enging Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 1001

ch receiver, which can be isolated, fitted with a safety valve as per Rule Yes

the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces

ere a drain arrangement fitted at the lowest part of each receiver Yes

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ting Air Receivers, No. Total cubic capacity 350 liters Internal diameter 410 1/4 thickness 12 1/4

less, lap welded or riveted longitudinal joint elect. welded Material S.M. Steel Range of tensile strength SHELL: 27.3-29.0 tons/in² Working pressure by Rules 50.6 kg/cm²

ELECTRIC GENERATORS:—Type

sure of supply volts. Full Load Current Amperes Direct or Alternating Current

ternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

nd off Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field

all terminals accessible, clearly marked, and furnished with sockets Are they so spaced

ielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

e generators are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements

e generators are 100 kw. or over have they been built and tested under survey

its of driven machinery other than generator

INS.—Are approved plans forwarded herewith for Shafting No E 11. 7. 49 Receivers No 22/10.48 Separate Tanks

Torsional Vibration characteristics if applicable been approved Yes E 11. 7. 49 Armature shaft Drawing No. 209902

RE GEAR

The foregoing is a correct description,

AKTIESELSKABET
BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI Manufacturer.

Signature



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Lloyd's Register
Foundation

010319-010525-0029

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

Dates of Examination of principal parts—Cylinders
Covers
Pistons
Piston rods

Connecting rods
Crank and Flywheel shafts
Intermediate shafts

Material
JOURNALS
CRANK THROWS
Tensile strength
Identification Marks

Elongation
CRANK THROWS
Identification Marks

Flywheel shaft, Material
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.)

These engines have been constructed under special survey in accordance with the requirements of the Rules, the approved plans and the Secretary's letter E dated 22.10.1948 and 11.7 and 3.8.1949.

The material has been tested as required by the Rules and the workmanship is good.

The engines have been tested under working conditions in the ship and found to work satisfactorily.

The amount of Fee

Travelling Expenses (if any)

When applied for

When received

Committee's Minute

Assigned

Surveyor to Lloyd's Register of Shipping

Lloyd's Register Foundation