

Rpt. 4c.

REPORT ON OIL ENGINE ^{auxiliary} ELECTRIC GENERATOR SETS. No. 377

Received at London Office

Date of writing Report 19th March 1941 When handed in at Local Office

Port of Düsseldorf

17 SEP 1945

No. in Survey held at
Reg. Book.

Date, First Survey 7th Octob. 1940 Last Survey 17th March 1941

Number of Visits 6

 Single
on the Twin
Triple
Quadruple Screw vessel

Amersfoort

Tons { Gross
Net

Built at Amsterdam

By whom built Nederl. Scheepsbouw My. Yard No. 280 When built 1941

Owners

Port belonging to

Oil Engines made at Köln

By whom made Klöckner Humb. Deutz

Contract No. 683685 When made 1941

Generators made at Bremen

By whom made Algem. Elect. Gesellsch.

Eng. No. 732971/73

Contract No. 545476 When made 1941

No. of Sets 1 Engine Brake Horse Power 50 Nom. Horse Power as per Rule 14.3 Total Capacity of Generators 80 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine Type A3M 420 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 170 mm Length of stroke 200 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 192 mm Is there a bearing between each crank yes

Revolutions per minute 700 Flywheel dia. 750 mm Weight 480 kg Means of ignition pre. comb. ch. Kind of fuel used gas oil on test bed

Crank Shaft, dia. of journals as per Rule as fitted 120 mm Crank pin dia. 110 mm Crank Webs Mid. length breadth 160 mm Thickness parallel to axis. Mid. length thickness 42.5 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 15 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 water cooled

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

Lubricating Oil Pumps, No. and size 1, 24 ltrs./min

Air Compressors, No. 1 No. of stages 2 Diameters 90/100 mm Stroke 100 Driven by Deuk Motor

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 AE 9 A V P g deep framed ventilated

Pressure of supply 220 volts. Full Load Current 136 Amperes. Direct or Alternating Current Direct

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off no

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 will follow and do the results comply with the requirements

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

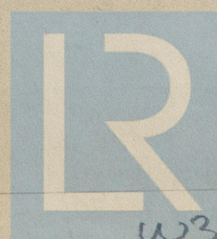
PLANS. Are approved plans forwarded herewith for Shafting 209836 A 4.7.39 Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR as per Rules

The foregoing is a correct description,

Klöckner-
Humboldt-Deutz AG

Manufacturer.



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W302-0013

Dates of Survey while building { During progress of work in shops - } 7.10.40. 29.10.40. 9.11.40. 7.3.41. 11.3.41. 17.3.41.
{ During erection on board vessel - - - }
Total No. of visits

Dates of Examination of principal parts—Cylinders 7.3.41. liners 7.3.41, 17.3.41. Covers 7.3.41. Pistons 17.3.41. Piston rods

Connecting rods 7.3.41. Crank and Flywheel shafts 9.11.40, 7.3.41, 17.3.41. Intermediate shafts

Crank and Flywheel shafts, Material S.M. Steel

Intermediate shafts, Material

Identification marks on Air Receivers

Identification Marks Lloyd's V.S. 67, 7.3.41.
connecting rods ident.M. V.S. 18/2, V.S. 18/4, V.S. 18/6

Identification Marks on bed plate V.S.

cylinder casing: Lloyd's Test 6 atm V.S. 7.3.41.

liners: Lloyd's Test 6 atm V.S. 7.3.41.

covers: Lloyd's Test 10 atm V.S. 7.3.41.

exhaust pipe Lloyd's Test 6 atm V.S. 11.3.41.

cooling water pump. Lloyd's Test 5 atm V.S. 7.3.41.

oil cooler: Lloyd's Test 10 atm V.S. 7.3.41.

Is this machinery duplicate of a previous case yes If so, state name of vessel Nederl. Scheepsbouw.Yard No. 283

General Remarks (State quality of workmanship, opinions as to class, &c.) This auxiliary engine has been constructed under special survey in accordance with the Society's Rules and Regulations as well as with the approved plan and instructions thereto. The auxiliary has been tested on the makers test bed in the presence of the undersigned during six hours under full load and two hours and 10% overload and was found working satisfactory during these trials. After the trials the engine has been opened out for inspection and all working parts were found in good condition. The material used in the construction is good and the workmanship satisfactory.

In my opinion the auxiliary engine is fit to be fitted on board of a vessel classed with this Society.

The amount of Fee

Travelling Expenses (if any)

When applied for,

23. 3. 19. 41

When received,

19

FRI. 28 DEC 1945

Committee's Minute

Assigned

No Action

[Signature]
Surveyor to Lloyd's Register of Shipping.



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