

28.6.19

Just Entry Hamburg Report Nr. 22914 "Elsa Essberger" London

Rpt. 4c. Comm. 662042

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

JUL - 7 1938 No. 272 JUL - 7 1938

Received at London Office

Date of writing Report 27. 6. 1938 When handed in at Local Office 2. 7. 1938 Port of D ü s s e l d o r f
No. in Survey held at C o l o g n e Date, First Survey 13. 1. 38. Last Survey 24. 6. 1938.
Reg. Book. Number of Visits 9

on the ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel "ELSA ESSBERGER" Tons { Gross 6103 Net 3476
Built at HAMBURG By whom built Howaldtswerke A.G. Yard No. 765 When built 1938
Owners JOHN T. ESSBERGER. Port belonging to HAMBURG.
Oil Engines made at Cologne By whom made Humboldt-Deutzmotoren Engine Contract No. 474357 When made 1938
Generators made at NÜRNBERG By whom made SIEMENS-SCHUCKERTWERKE Contract No. - When made 1938.
No. of Sets 1. Engine Brake Horse Power 180 Nom. Horse Power as per Rule 51.5 Total Capacity of Generators 120 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine V 4 M 345 2 or 4 stroke cycle 4 Single or double acting single
Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 280 mm Length of stroke 450 mm No. of cylinders 4 No. of cranks 4
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 307.5 mm Is there a bearing between each crank yes
Revolutions per minute 350 Flywheel dia. 1500 mm Weight 2700 kgs Means of ignition sol. inject Kind of fuel used on test bed gas oil
Crank Shaft, dia. of journals as per Rule 190 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth 325 mm Thickness parallel to axis
as fitted 190 mm Mid. length thickness 70 mm shrunk Thickness around eyehole
Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners
as fitted Means of lubrication forced
Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes
Are the cylinders fitted with safety valves yes Are the exhaust pipes ~~and water~~ water cooled or lagged with non-conducting material water cooled
Cooling Water Pumps, No. none Is the sea suction provided with an efficient strainer which can be cleared within the vessel
Lubricating Oil Pumps, No. and size 1 tooth wheel pump capacity 40 lts/min at 1400 rev. per min.
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 Siemens-Schuckert 450 2393 N. G.V. 323 D 1.
Pressure of supply 230 volts. Full Load Current 520 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 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 yes and do the results comply with the requirements approved.
If the generators are 100 kw. or over have they been built and tested under survey yes Ident. marks: LLOYD'S 54/III H.K.S. 15.3.38.

PLANS. Are approved plans forwarded herewith for Shafting 212 501 25.2.35 Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR As Per Rules

The foregoing is a correct description,
Humboldt-Deutzmotoren

Handwritten signature

Manufacturer.



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W1352-0122

Dates of Survey while building
 { During progress of work in shops - - } 13.1., 11.3., 29.3., 6.5., 30.5., 7.6., 13.6., 23.6., 24.6.1938.
 { During erection on board vessel - - - }
 Total No. of visits

Liners: 30.5., 24.6.

Dates of Examination of principal parts—Cylinders 6.5., 30.5. Covers 30.5., 24.6. Pistons 24.6. Piston rods

Connecting rods 11.3., 29.3., 24.6. Crank ~~shafts~~ shafts 13.1., 30.5., 24.6. Intermediate shafts

Crank ~~shafts~~ shafts, Material S.M. Steel Identification Marks LLOYD'S 2910 H.B. 13.1.38.

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case yes If so, state name of vessel My. De Noord, Yard No. 571
Düsseldorf Report No. 267

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 plans and the instructions thereto. The material used in the construction was found to be good and the workmanship satisfactory. This auxiliary engine has been tested on Maers's test bed in the presence of the undersigned under full load during 8 hours and 10 % overload during 1 hour and was found working satisfactorily during these trials. After trials all working parts have been opened out for inspection and were found in good condition.

The main engine is not being built by Messrs. Humboldt-Deutzmotoren A.G.

A copy of this report has been forwarded to Hamburg.

1 m. 5. 37. - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... RM. 150.-
 Travelling Expenses (if any) RM. 20.-
 When applied for, Düsseldorf 6.7.1938
 When received, 25.8.1938

H. Künigsmann
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 14 OCT 1938

Assigned

See Minute on P. back



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