

28.6.19

Date of writing Report 27. 6. 1938 When handed in at Local Office 2. 7. 1938 Port of Düsseldorf  
No. in Survey held at Cologne Date, First Survey 13. 1. 38. Last Survey 24. 6. 1938.  
Reg. Book.  
on the <sup>Single</sup> ~~Turn~~ <sup>Trip</sup> ~~Triple~~ <sup>Quadruple</sup> Screw vessel "ELSA ESSBERGER"  
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 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/cm<sup>2</sup> 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 Mid. length breadth 325 mm Thickness parallel to axis  
as fitted 190 mm Crank Webs 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  
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 ~~antichoke~~ 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 Shafing 212 501 25.2.35 Receivers Separate Tanks  
(If not, state date of approval)

**SPARE GEAR** As Per Rules



