

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11750.

Received at London Office 25 AUG 1945

Date of writing Report July 1945 When handed in at Local Office 19 Port of Copenhagen  
 No. in Survey held at Holeby and Copenhagen Date, First Survey 7<sup>th</sup> September 42 Last Survey 16<sup>th</sup> July 1945  
 Reg. Book. Number of Visits 22.  
 on the Single Triple Quadruple Screw vessel "ESSE NYBORG"  
 Built at Copenhagen By whom built A. B. Burmeister & Wain's Maskin- og Skibsbyggeri Yard No. 669 When built 1945  
 Owners Del Danske Petroleum Aktieselskab Port belonging to Copenhagen  
 Oil Engines made at Holeby By whom made A. B. Dieselmotorfabrik Ltd. Contract No. 3592 When made 1945  
 Generators made at Copenhagen By whom made A. S. Titan Contract No. 89151 When made 1945  
 No. of Sets one Engine Brake Horse Power 75 Nom. Horse Power as per Rule 19.21 Total Capacity of Generators 50 Kilowatts.

OIL ENGINES, &c.—Type of Engines Vertical Diesel engines Solid injection 2 or 4 stroke cycle 4 Single or double acting single  
 Maximum pressure in cylinders 40 kg/cm<sup>2</sup> Diameter of cylinders 205 mm Length of stroke 300 mm No. of cylinders 3 No. of cranks 3  
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 253 mm Is there a bearing between each crank yes  
 Revolutions per minute 450 Flywheel dia. 1250 mm Weight Means of ignition compression Kind of fuel used Heavy oil  
 Crank Shaft, dia. of journals as per Rule 111 mm as fitted 125 mm Crank pin dia. 122 mm Crank Webs Mid. length 295 mm Thickness parallel to axis 65 mm shrunk  
 Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 17 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 lagged  
 Cooling Water Pumps, No. 1 off 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 worked by the engine at 2 1/2 m.

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 yes State No. of Report or Certificate  
 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  
 Is there a drain arrangement fitted at the lowest part of each receiver yes

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. 1 off Total cubic capacity 100 litres Internal diameter 318 mm thickness 12.5 mm  
 Seamless, lap welded or riveted longitudinal joint Material S. & S. Steel Range of tensile strength 41 kg/cm<sup>2</sup> Working pressure by Rules 6.8 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type Drip proof vertical  
 Voltage of supply 110 volts Full Load Current 454 Amperes Direct or Alternating Current Direct  
 Is an alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown  
 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  
 shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes  
 Are the generators under 100 kw. full load rating, have the makers supplied certificates of test yes and do the results comply with the requirements yes  
 Are the generators 100 kw. or over have they been built and tested under survey

TRANS.—Are approved plans forwarded herewith for Shafting yes Receivers Separate Tanks  
 GEAR as per Rules

The foregoing is a correct description,

HOLEBY DIESELMOTORFABRIK

Manufacturer.



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Lloyd's Register  
Foundation

003698-003705-0201



Dates of Survey while building  
During progress of work in shops - 1942-7/9-10/9-16/9-18/9-22/9-24/11 -  
During erection on board vessel - 1/2-25/2-20/3-21/4-28/4-9/6-29/7-6/8-14/3-28/5-7/6-9/6-11/6-14/6-21/6-22/6-14/7-1945  
Total No. of visits 22

Dates of Examination of principal parts—Cylinders. 24/11-42 11/6-45 Covers 24/11-42 11/6-45 Pistons 24/11-42 11/6-45 Piston rods.

Connecting rods. 7/9-10/9-24/11-42 Crank and Flywheel shafts. 10/9-14/9-24/11-42 Intermediate shafts.

Crank shaft  
Material S. ell. forged steel Tensile strength 28.9 lb/in<sup>2</sup>  
Elongation 37.4 % in 2" Identification Marks LLOYD'S NO 5805 424.11.42

Flywheel shaft, Material Identification Marks

Is this machinery duplicate of a previous case Identification Marks

Identification marks on Air Receivers NO 900 LLOYD'S TEST 56 ATM, W.P. 28 ATM 4 28.4.43

Is this machinery duplicate of a previous case yes If so, state name of vessel Hobley Standard engine Type 320

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above generating set has been constructed and fitted on board under special survey in accordance with the Rule and the approved plans.

The material used in construction has been tested as required by the Rule and the workmanship is good.

On completion the set was tested on board under full power working condition and found satisfactory.

The amount of Fee ... £ 220.00

When applied for 18.7.1945

Travelling Expenses (if any) £ 52.40

When received 19

FRI, 18 NOV 1945

Committee's Minute

Assigned

Su F.E. machy. spk

Surveyor to Lloyd's Register of Shipping



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