

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 14806  
7 JUL 1954  
RECEIVED  
LLOYD'S REGISTER

Date of writing Report 26<sup>th</sup> June 1954 When handed in at Local Office 19 Port of Copenhagen Received at London Office

No. in Survey held at Halundborg Date, First Survey 3<sup>rd</sup> December 52 Last Survey 8<sup>th</sup> April 1953  
Reg. Book. 63896 Number of Visits 3

~~HTTB~~ on the Single Screw vessel MV Se India Tons Gross 9549  
63896 Triple Quadruple Net 6034

Built at Nakskov By whom built A/y Nakskov Skibsvaest Yard No. 39 When built 1930

Owners A/y Det Ostariatiske Kompagni Port belonging to Copenhagen

Oil Engines made at Halundborg By whom made A/y Motorfabriken Bukh Engine No. 6484 When made 1953

Generators made at Hamburg Altona By whom made Hansa-Motorenfabrik Generator No. 546592 When made 1953

No. of Sets 1 B.H.P. of each Set 135 M.N. of each Set as per Rule 27 Capacity of each Generator 75 Kilowatts

Is Set intended for essential services Yes

OIL ENGINES, &c.—Type of Engines Heavy oil, trunk piston, solid injection 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 55 kg/cm<sup>2</sup> Diameter of cylinders 160 mm Length of stroke 230 mm No. of cylinders 6 No. of cranks 6

Mean indicated pressure 7.3 kg/cm<sup>2</sup> Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 165 mm

Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 72 x 10<sup>4</sup> Revolutions per minute 750

Flywheel dia. 650 mm Weight 255 kg. Means of ignition compression Kind of fuel used Heavy oil

Crank Shaft, Solid forged dia. of journals as per Rule Crank pin dia. 105 mm Crank Webs Mid. length breadth 165 mm Thickness parallel to axis as fitted

Flywheel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) as fitted

Are means provided to prevent racing of the engine Yes Means of lubrication forced Kind of damper if fitted as fitted

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. and how driven 1 off direct Is the sea suction provided with an efficient strainer which can be cleared within the vessel as fitted

Lubricating Oil Pumps, No. and size 1 off 6.3 tons/hour

Air Compressors, No. as fitted No. of stages as fitted Diameters as fitted Stroke as fitted Driven by as fitted

Saving Air Pumps or Blowers, No. as fitted How driven as fitted

AIR RECEIVERS:—Have they been made under Survey as fitted State No. of Report or Certificate as fitted

(other than main engines) State full details of safety devices as fitted

Are the internal surfaces of the receivers be examined and cleaned as fitted

Are there a drain arrangement fitted at the lowest part of each receiver as fitted

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

Class, lap welded or riveted longitudinal joint as fitted Material as fitted Range of tensile strength as fitted Working pressure as fitted

Drinking Air Receivers, No. as fitted Total cubic capacity as fitted Internal diameter as fitted thickness as fitted

Class, lap welded or riveted longitudinal joint as fitted Material as fitted Range of tensile strength as fitted Working pressure as fitted

ELECTRIC GENERATORS:—Type Dripproof ventilated

Voltage of supply 220 volts. Full Load Current 325 Amperes. Direct or Alternating Current Direct

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

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

All terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced as fitted

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

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

Generators are 100 kw. or over have they been built and tested under survey as fitted

Is there any driven machinery other than generator None

Drawings.—Are approved plans forwarded herewith for Shafting Yes Receivers as fitted Separate Tanks as fitted

(If not, state date of approval) Torsional Vibration characteristics if applicable been approved Yes 23-12-1952 Armature shaft Drawing No. as fitted

(State date of approval and name of previous duplicate case, if any) Is a spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

MOTORFABRIKEN BUKH & HALUNDBORG

Manufacturer.



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Lloyd's Register Foundation

002885-002890-0266

10/8/54

Dates of Survey while building { During progress of work in shops - - } 3/12 52 - 9/12 52 - 8/4 53  
 { During erection on board vessel - - }  
 Total No. of visits. 3

Dates of Examination of principal parts—Cylinders 9/12 52 Covers 9/12 52 Pistons 9/12 52 Piston rods <

Connecting rods. 9/12 52 Crank and Flywheel shafts. 3/12 52 Intermediate shafts <

Crank shaft { Material S. M. Steel Tensile strength 66.8 kg/cm<sup>2</sup>  
 Elongation 26% on 50 mm 5 x D. Identification Marks Lloyd's Nr 648 KM 6-10-52

Flywheel shaft, Material < Identification Marks <

Identification marks on Air Receivers. -

Is this machinery duplicate of a previous case. Yes If so, state name of vessel M/y Meonia

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The above oil engine generating set has been built under special survey in accordance with the Rules, the approved plans and the requirements contained in the Secretary's letters dated 6. 23/12 52 - 31/12 52

The material used has been examined and tested as required by the Rules. The workmanship is good. On completion the oil eng. generating set was tested in the shop under full power working conditions and found satisfactory. The oil engine generator set is still placed in stock at M/y Motorfabriken Bukh.

44,522-T. (MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... Kr. 200,00 { When applied for 8.3. 19 54  
 Travelling Expenses (if any) Kr. 55,00 { When received 19

K. L. Hansen.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute THURSDAY 21 OCT 1954  
 Assigned

