

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4983

Date of writing Report 10th Oct, 1939 When handed in at Local Office 19 Port of STOCKHOLM
 Received at London Office 24 Oct 1939
 No. in Survey held at ESKILSTUNA Date, First Survey 7/1/38 Last Survey 1/9 1939
 Reg. Book. 5 kg/s Number of Visits 3

on the Single Twin Triple Quadruple Screw vessel M/S "BEYERLAND" Tons Gross Net
 NOTE: ENGINES TO BE INSTALLED AT MESSRS. BOELLE'S SCHEEPSWERVEN EN MACHINE FABRIEK, ROTTERDAM.
 Built at ROTTERDAM By whom built VAN DER GIESSEN & ZONEN SCHEEPSW. N.V. Yard No. When built
 Owners SHIPPING & COAL COMP. Port belonging to ROTTERDAM
 Oil Engines made at ESKILSTUNA By whom made A/B. BOLINDER-MUNKTELL ENGINE Contract No. 33204 When made 1939
 Generators made at By whom made Contract No. When made
 No. of Sets 1 Engine Brake Horse Power 15 Nom. Horse Power as per Rule Total Capacity of Generators Kilowatts.

L ENGINES, &c.—Type of Engines AUX. BOLINDER-DIESEL. Type DW. 55121, 2 or 4 stroke cycle 2 Single or double acting SINGLE
 Maximum pressure in cylinders 60 KG/CM² Diameter of cylinders 150 mm. Length of stroke 150 mm. No. of cylinders 1 No. of cranks 1
 Location of bearings, adjacent to the Crank, measured from inner edge to inner edge 190 mm. Is there a bearing between each crank
 Revolutions per minute 900 Flywheel dia. 700 mm. Weight 180 KE. Means of ignition COMPRESSION Kind of fuel used MARINE DIESEL OIL

Crank Shaft, dia. of journals as per Rule 80 mm. Crank pin dia. 100 mm. Crank Webs Mid. length breadth 180 mm. Thickness parallel to axis
FLYWHEEL IS FITTED ON THE CRANKSHAFT. as per Rule Mid. length thickness 35 mm. Thickness around eyehole
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners

Is there a governor or other arrangement fitted to prevent racing of the engine when declutched YES Means of lubrication PUMP
 Are the cylinders fitted with safety valves NO. Are the exhaust pipes and silencers water cooled Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES.

Boiling Water Pumps, No. ONE
 Lubricating Oil Pumps, No. and size 5, D. = 7 mm.
 Air Compressors, No. NONE FITTED No. of stages Diameters Stroke Driven by
 Sucking Air Pumps, No. NONE FITTED 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
 Are the internal surfaces of the receivers be examined YES What means are provided for cleaning their inner surfaces MUDHOLE
 Is there a drain arrangement fitted at the lowest part of each receiver YES

High Pressure Air Receivers, No. NONE FITTED Cubic capacity of each Internal diameter thickness
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 Working Air Receivers, No. ONE Total cubic capacity 30 LITRES Internal diameter 216 mm. thickness 7 mm.
 Seamless, lap welded or riveted longitudinal joint SEAMLESS Material S.M. STEEL Range of tensile strength 44-55 KG/MM² Working pressure by Rules 30 KG/CM²

ELECTRIC GENERATORS:—Type
 Voltage of supply volts. Full Load Current Amperes. Direct or Alternating Current
 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
 Generators, are they compounded as per rule Is there an adjustable regulating resistance fitted in series with each
 Is the field Are all terminals accessible, clearly marked, and furnished with sockets
 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule
 Are the generators under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements
 Are the generators 100 kw. or over have they been built and tested under survey

Are approved plans forwarded herewith for Shafting E. 6/7-39 Receivers E 35/11-37 Separate Tanks
 (If not, state date of approval)

RED GEAR AS PER ENCLOSED LIST 105-M-118, 105-M-119.
 THE SPARE GEAR HAS BEEN EXAMINED BEFORE IT WAS DESPATCHED.

The foregoing is a correct description,
 Aktiebolaget Bolinder MunkteLL
 J. J. Johansson
 Manufacturer.



Dates of Survey while building } During progress of work in shops - - } 17, 38; 19, 1, 39.
 } During erection on board vessel - - }
 Total No. of visits 3 IN SHOP.

Dates of Examination of principal parts—Cylinders 1/9-39 Covers 1/9-39 Pistons 1/9-39 Piston rods

Connecting rods 1/9-39 Crank and Flywheel shafts 19/2/39, 1/9/39 Intermediate shafts

Crank and Flywheel shafts, Material S.M. STEEL Identification Marks 4395 T.B.

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers

№ 4163
 LLOYD'S TEST 30 kg
 W.P. 15 kg
 T.B. 17.1.38

Cu Lhu. Ch. 13-10-39.

Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

I AM OF OPINION THAT THIS ENGINE IS OF SUPERIOR MATERIAL AND WORKMANSHIP AND AS IT HAS BEEN DESIGNED AND CONSTRUCTED UNDER SPECIAL SURVEY I RESPECTFULLY SUBMIT THAT IT BE APPROVED AS AUXILIARY TO THE CLASSED MAIN ENGINE TO BE INSTALLED IN M/S "BEYERLAND".

The amount of Fee ...

kr. 190.-

When applied for, 11.10.1939

Travelling Expenses (if any)

kr. 42.00

When received, 20/12/39 R.S.H.

Thomas Talow

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 17 NO. 1939

Assigned

See Prot. G.C. 28639



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Lloyd's Register Foundation

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1m.5.37.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)