

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4983

Date of writing Report 10th Oct, 1939 When handed in at Local Office

Received at London Office 24 OCT 1939

Port of STOCKHOLM

No. in Survey held at ESKILSTUNA

Date, First Survey 7/1/38 Last Survey 1/9 1939

Reg. Book.

Number of Visits 3

Single
on the Twin
Triple
Quadruple

Screw vessel

M/S "BEYERLAND"

NOTE: ENGINES TO BE INSTALLED AT MESSRS. BOELE'S SCHEEPSWERVEN
IN MACHINE FABRIK, ROTTERDAM.Tons { Gross
Net

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. 55131, 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

Position 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 KG

Means of ignition COMPRESSION

Kind of fuel used MARINE DIESEL OIL

Crank Shaft, dia. of journals

as per Rule.

as fitted 80 mm.

Crank pin dia. 100 mm.

Crank Webs

Mid. length breadth 180 mm.

Thickness parallel to axis

FLYWHEEL IS FITTED ON THE CRANKSHAFT.

Mid. length thickness 35 mm.

Thickness around eye hole

Flywheel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

Thickness of cylinder liners

Is 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 YES

Cooling Water Pumps, No. ONE

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

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

Sucking 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/MM²Working pressure by Rules 30 KG/CM²

ELECTRIC GENERATORS:—Type

Pressure 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

Terminal 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

If generators are under 100 kw. full load rating, have the Makers supplied certificates of test

and do the results comply with the requirements

If generators are 100 kw. or over have they been built and tested under survey

Are approved plans forwarded herewith for Shafting E. 6/2-39

(If not, state date of approval)

Receivers E 35/11-37

Separate Tanks

SPARE 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

S. J. J. J. J.

Manufacturer.



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Lloyd's Register
Foundation

W1044-0248

Dates of Survey while building { During progress of work in shops - - } 12, 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
 W.P.
 T.B. 17.1.38
 30 kg
 15 kg

See Lku. 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 ...

£2. 190.-

When applied for,

11.10.1939

Travelling Expenses (if any)

£4. 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 Rot. G.C. 28639



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Lloyd's Register Foundation

pt. 4c.

Date of writi

No. in S
 Reg. Book.

Built at

Owners

Oil Engin

Generators

No. of Sets

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Maximum pr

Span of bear

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PLANS. A

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