

REPORT ON OIL ENGINE MACHINERY.

No. 354896

Received at London Office 11 NOV 1952

Report 25-0-1951 When handed in at Local Office 19 Port of Rotterdam

Survey held at Schiedamsche Date, First Survey 30-4-51 Last Survey 21-8-1951

Single or multiple Screw vessel M.V. "Beo" Tons Gross 194.34 Net 75.55

at Schiedamsche By whom built Hs. "de Klop" Yard No. 10101 When built 1951

made at Amsterdam By whom made Hs. "Werkspoor N.V." Engine No. 1332 When made 1951

Boiler No. 1 When made 1951

Power 430 Owners Indonesian Government Port belonging to Djakarta

per Rule 06 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted Yes

h vessel is intended Service in Indonesian Archipel

ES, &c. - Type of Engines Heavy oil engines T.M.A.S. 276 2 or 4 stroke cycle 4 Single or double acting Single

Pressure in cylinders 50 kg/cm² Diameter of cylinders 270 mm Length of stroke 500 mm No. of cylinders 6 No. of cranks 6

d Pressure 7.5 " Ahead Firing Order in Cylinders 1-3-5-6-4-2 Span of bearings, adjacent to the crank, measured

to inner edge 220 mm Is there a bearing between each crank Yes Revolutions per minute 275

Weight 1250 kg Moment of inertia of flywheel (lbs. in² or Kg. cm.²) 2.575 Means of ignition Compression Kind of fuel used Diesel

dia. of journals as per Rule 220 mm Crank pin dia. 220 mm Crank webs Mid. length breadth 240 mm Thickness parallel to axis 14 mm

as fitted 220 mm Mid. length thickness 22 mm Thickness around eyehole 14 mm

t, diameter as per Rule 190 mm Thrust Shaft, diameter at collars as fitted 145 mm

as fitted 177.5 mm Is the tube screw shaft fitted with a continuous liner Yes

thickness in way of bushes as per Rule 14 mm Thickness between bushes as fitted 11 mm Is the after end of the liner made watertight in the

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length

es not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-

If two liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliances fitted at the after

If so, state type Length of bearing in Stern Bush next to and supporting propeller 790 mm

151.5 mm Pitch 119.5 mm No. of blades 4 Material Bronze whether moveable Total developed surface 490 % sq. feet

ertia of propeller (lbs. in² or Kg. cm.²) Kind of damper, if fitted

ersing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of

Thickness of cylinder liners 21 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled

non-conducting material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned

Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

orked from the Main Engines, No. 1 Diameter 130 mm Stroke 75 mm Can one be overhauled while the other is at work Yes

ed to the Main Bilge Line (No. and size 1.2 16 ton/h 1.2 30 ton/h 1 Hand pump 2"

How driven Main engine Electric

ater led to the bilges no If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

No. and size 1.2 30 ton/h Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1.2 45 ton/h + 1.2 100 ton/h

ident means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both main bilge pumps and auxiliary

and size: In machinery spaces 1.2 3 1/4", 1.2 2 1/2", 1.2 2" In pump room 1.2 2"

ower Pump Direct Suctions to the engine room bilges, No. and size 1.2" + 1.2 3 1/4"

suction pipes in holds and tunnel well fitted with strum-boxes Yes Are the bilge suction in the machinery spaces led from easily

axes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

ections fitted direct on the skin of the Ship on hull Are they fitted with valves or cocks Valves Are they fixed

on the ship's side to be seen without lifting the platform plates Yes Are the overboard discharges above or below the deep water line Below

ted with a discharge valve always accessible on the plating of the vessel Yes Are the blow off cocks fitted with a spigot and brass covering plate

through the bunkers How are they protected

pass through the deep tanks Have they been tested as per Rule

, cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times Yes

ement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery

m one compartment to another Yes Is the shaft tunnel watertight Is it fitted with a watertight door worked from

sel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

ompressors, No. 1 No. of stages 2 diameters 100-120 mm stroke 90 mm driven by main engine

r Compressors, No. 1 No. of stages 2 diameters 95-110 mm stroke 85 mm driven by aux engine

ary Air Compressors, No. 1 No. of stages 1 diameters 100 mm stroke 90 mm driven by

on is made for first charging the air receivers Aux engine hand started

Air Pumps, No. 1 diameter 120 mm stroke 120 mm driven by

gines crank shafts, diameter as per Rule 120 mm No. 120 mm Position Port side engine room

iliary engines been constructed under special survey Yes Is a report sent herewith Copy Certificate

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AIR RECEIVERS:—Have they been made under survey Yes State No. of report or certificate C 5995

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Can the internal surfaces of the receivers be examined and cleaned Yes Is a drain fitted at the lowest part of each receiver Yes

Injection Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓

Seamless, welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure ✓

Starting Air Receivers, No. 2 Total cubic capacity 1200 litres Internal diameter 496 mm thickness 9.5

Seamless, welded or riveted longitudinal joint Seamless Material St. steel Range of tensile strength 45-62 kg/cm² Working pressure ✓

IS A DONKEY BOILER FITTED no If so, is a report now forwarded ✓

Is the donkey boiler intended to be used for domestic purposes only ✓

PLANS. Are approved plans forwarded herewith for shafting 20-3-52 Receivers 20-3-52 Separate power ✓

Donkey boilers ✓ General pumping arrangements 23-4-52 Pumping arrangements in machinery space 23-4-52

Oil fuel burning arrangements ✓

Have Torsional Vibration characteristics been approved Yes Date of approval 15-3-52

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied ✓

N.V. SCHEEPBOUWWERIJ

DE MACHINEFABRIEK

The foregoing is a correct description, ✓

Manufacturer.

Dates of Survey while building
During progress of work in shops - - 15
During erection on board vessel - - 6
Total No. of visits ✓

Dates of examination of principal parts—Cylinders ✓ Covers ✓ Pistons ✓ Rods ✓ Connecting rods ✓

Crank shaft ✓ Flywheel shaft ✓ Thrust shaft ✓ Intermediate shafts ✓ Tube shaft ✓

Screw shaft 30-4-52 Propeller 30-4-52 Stern tube 30-4-52 Engine seatings 12-24-52 Engine holding down bolts ✓

Completion of fitting sea connections 30-4-52 Completion of pumping arrangements 10-0-52 Engines tried under working conditions ✓

Crank shaft, material St. steel Identification mark KK 10-1-51 Flywheel shaft, material ✓ Identification mark ✓

Thrust shaft, material St. steel Identification mark HRB 10-12-41 Intermediate shafts, material St. steel Identification marks ✓

Tube shaft, material ✓ Identification mark ✓ Screw shaft, material St. steel Identification mark ✓

Identification marks on air receivers R 906063-906070 LLOYDS TEST

Welded receivers, state Makers' Name The Chuteville Tube Co. W.P. 30 kg/cm² R.A. 15-4-1949

Is the flash point of the oil to be used over 150°F Yes

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with Yes

Description of fire extinguishing apparatus fitted 3 gal. fire foam apparatus + 1 fire gun + 1 water hose with nozzle

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo no If so, have the requirements of the Rules been complied with ✓

If the notation for ice strengthening is desired, state whether the requirements in this respect have been complied with no

Is this machinery duplicate of a previous case Yes If so, state name of vessel N.V. "Bango"

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

The machinery of this vessel has been made and fitted in accordance with the approved Secretary's Orders and Society's Rules. Materials tested as required and workmanship found satisfactory. Upon completion the machinery has been tried under full working conditions on a tug on the River Hooz when all was found to be in a good working and manoeuvring condition and in my opinion merits the approval of the Committee to be recorded with the entry of + L.M.C. 0-52. Oil engines in the Society's Register Book.

The amount of Entry Fee ... £ ...

Special Fitting fee 1/3 x 800 x 15.60 =

Donkey Boiler Fee... £ 416.00

Travelling Expenses (if any) £ 35.00

When applied for 7/11 1952

When received 19

Committee's Minute TUES 6 JAN 1953

Assigned + LMC 9.52 Cub. Eng.

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