

REPORT ON OIL ENGINE MACHINERY.

No. 1674.
19 JAN 1935

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Survey held at Lugsburg

Date, First Survey 15th May 1934

Last Survey 24th December 1934

Number of Visits 130

Single
on the Twin
Triple
Quadruple
Screw vesselTons ^{Gross}
Net

at Hamburg

By whom built Deutsche Werft A.G.

Yard No. 156

When built 1934/35

as made at Lugsburg

By whom made Masch.-Fabrik Augsburg-Linberg A.G. Engine No. 350/70

When made 1934

Boilers made at

By whom made

Boiler No.

When made

Horse Power 2700 normal
3500 overcharged

Owners Nedelandische Indische Tank Steam Boot Mij Port belonging to Rotterdam

Horse Power as per Rule 508

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

for which vessel is intended

ENGINES, &c. Type of Engines 4* K 8 V 65/140

2 or 4 stroke cycle 4 Single or double acting single

n pressure in cylinders 45 atm when overcharged

Diameter of cylinders 650 mm

Length of stroke 1400 mm

No. of cylinders 8

No. of cranks 8

icated Pressure 73 atm normal
8.5 atm overcharged

bearings, adjacent to the Crank, measured from inner edge to inner edge 844 mm

Is there a bearing between each crank yes

ns per minute 110 normal
120 overcharged

Flywheel dia. 2100 mm

Weight 5500 kg

Means of ignition direct ign.

Kind of fuel used Diesel oil on test bed

shaft, dia. of journals as per Rule

Crank pin dia. 460 mm

Crank Webs

Mid. length breadth 870 mm

Thickness parallel to axis 267/290 mm

as fitted 460 mm

Mid. length thickness 267/290 mm

Thickness around eyehole 204 mm

1 Shaft, diameter as per Rule

Intermediate Shafts, diameter as per Rule

Thrust Shaft, diameter at collars as per Rule

as fitted 460 mm

as fitted

as fitted

shaft, diameter as per Rule

Screw Shaft, diameter as per Rule

Is the { tube } shaft fitted with a continuous liner {

as fitted

as fitted

as fitted

Liners, thickness in way of bushes as per Rule

Thickness between bushes as per rule

Is the after end of the liner made watertight in the

as fitted

as fitted

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

er does 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-corrosive

ners are fitted, is the shaft lapped or protected between the liners

Is an approved Oil Gland or other appliance fitted at the after end of the tube

If so, state type

Length of Bearing in Stern Bush next to and supporting propeller

r, dia.

Pitch

No. of blades

Material

whether Moveable

Total Developed Surface

sq. feet

of reversing Engines direct, by means of compressed air Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes

Means of lubrication

Thickness of cylinder liners 45 mm

Are the cylinders fitted with safety valves yes

Are the exhaust pipes and oil coolers water cooled or lagged with

ding material If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

Water Pumps, No. 1 rotary type pump for cylinder cooling (bearing) 250 l/h at 825 rpm

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

umps worked from the Main Engines, No. 1 rotary type pump 250 l/h at 825 rpm

connected to the Main Bilge Line No. and Size 1 rotary type pump 250 l/h at 825 rpm

How driven

ling water led to the bilges If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

Pumps, No. and size main engine Power Driven Lubricating Oil Pump, including Spare Pump, No. and size 1, 40 l/h at 275 rpm

Independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

In Pump Room

No. and size:—In Machinery Spaces

dent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

Are the Bilge Suctions in the Machinery Spaces

e Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes

easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

ea Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

zed sufficiently high on the ship's side to be seen without lifting the platform plates

Are the Overboard Discharges above or below the deep water line

uch fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

s pass through the bunkers

How are they protected

Have they been tested as per Rule

s pass through the deep tanks

ipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

ngement 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 spaces, or from one

nt to another Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

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

Compressors, No. No. of stages Diameters Stroke Driven by

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

Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by

ng Air Pumps, No. Diameter Stroke Driven by

Engines crank shafts, diameter as per Rule

as fitted

006160-006174-0078

