

REPORT ON OIL ENGINE MACHINERY.

No. 691

Date of writing Report 4th Sept. 19 52

When handed in at Local Office

4th Sept. 19 52

Port of

K I E L

No. in Survey held at

Kiel

Date, First Survey 19th April

Last Survey 19th July

1952

Reg. Book.

Number of Visits 13

90211a Single

on the

Screw vessel m.v. "HENRIK DANICA"

Tons

Gross 500

Net

Built at Rendaburg

By whom built

Kiel Werft & Maschinenbau GmbH

Yard No. 546

When built

1952

Engines made at

Kiel

By whom made

Maschinenbau Kiel Aktiengesellschaft

Engine No. 10520

When made

1951

Donkey Boilers made at

By whom made

Boiler No.

When made

Brake Horse Power

Maximum

Service

Owners

H.H. Andersen & Co.

Port belonging to

Copenhagen

I.N. as per Rule

150

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

yes

Trade for which vessel is intended

L ENGINES, &c.—Type of Engines MAK heavy oil type MSu 581

2 or 4 stroke cycle

Single or double acting

Maximum pressure in cylinders

Diameter of cylinders

Length of stroke

No. of cylinders

No. of cranks

Indicated Pressure

Span of bearings (i.e., distance between inner edges of bearings in

y of a crank)

Is there a bearing between each crank

Revolutions per minute

Maximum

Service

Flywheel dia.

Weight

Moment of inertia of flywheel (lbs. in² or Kg. cm.²)

Means of ignition

Kind of fuel used

Crank pin dia.

Crank webs

Mid. length breadth

Thickness parallel to axis

Crank pin dia.

Crank webs

Mid. length thickness

shrink

Thickness around eyehole

Wheel Shaft, diameter

Intermediate Shafts, diameter

Thrust Shaft, diameter at collars

as per Rule

180 mm

Screw Shaft, diameter

Screw Shaft, diameter

220 mm

Is the

tube

screw

shaft fitted with a continuous liner

no

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

peller boss

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

The liner 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-

osive. If two liners are fitted, is the shaft lapped or protected between the liners

Is an approved Oil Gland fitted at the after

of stern tube

yes If so, state type

Cedervall

Length of bearing in Stern Bush next to and supporting propeller

800 mm

peller, dia.

2120 mm

Pitch

1230 mm

No. of blades

4

Material

Al-Si bronze

whether moveable

no

Total developed surface

sq. feet

ent of inertia of propeller including entrained water (lbs. in² or Kg. cm.²)

Kind of damper

if fitted

friction type

Method of reversing Engines

direct

Is a governor or other arrangement fitted to prevent racing of the engine

yes

Means of

cation

forced Thickness of cylinder liners

30 mm

Are the cylinders fitted with safety valves

yes

Are the exhaust pipes and silencers water cooled

ged with non-conducting material

yes

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

to the engine

Cooling Water Pumps, No. and how driven

(4) ME & E. motor

Working F.W.

ME pump

Ballast pump

Spare F.W. pump

S.W. pump

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

yes

Pumps worked from the Main Engines, No. and capacity

one 140 mm x 90 mm

Cap one be overhauled while the other is at work

ps connected to the Main Bilge Line

(No. and capacity of each)

Ballast pump (ED) 60 tons/hr.

wash deck & Fire pump (ED) 12 tons/hr.

cooling water 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

gements

Pumps, No. and capacity

one 66 t/hr.

Power Driven Lubricating Oil Pumps, including spare pump, No. and size

one engine driven 9 t/hr.

one electr. driven 20 t/hr.

ep, independent means arranged for circulating water through the Oil Cooler

yes

Branch Bilge Suctions

d size:—In machinery spaces

three each 70 mm dia.

In pump room

ds, &c.

forwd. suctions (P&S) 70 mm dia.

aft suctions (P&S) 80 mm dia.

(plus one direct bilge suction 125 mm

dia. from cooling water pump

Bilge Suctions to the engine room bilges, No. and size

1 a 125 mm dia. & 1 a 51 mm dia.

(from bilge & ballast pump)

the bilge suction pipes in holds

are fitted with strum-boxes

yes

Are the bilge suction pipes in the machinery spaces led from easily

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

yes

Are they fixed

Sea Connections fitted direct on the skin of the Ship

yes

Are they fitted with valves or cocks

valves

Are they fixed

high 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

above

y each fitted 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

pipes pass through the bunkers

none

How are they protected

pipes pass through the deep tanks

none

Have they been tested as per Rule

pipes, cocks, valves and pumps in connection with the machinery

are accessible at all times

yes

rrangement 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

or from one compartment to another

yes

Is the shaft tunnel watertight

mach.

Is it fitted with a watertight door

worked from

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

Air Compressors, No.

one

No. of stages

two

diameters

120 (120-108)

stroke

70 mm

driven by

ME

ary Air Compressors, No.

one

No. of stages

two

Capacity

36 m³ per hour

(driven by E. motor)

driven by

E. motor

Auxiliary Air Compressors, No.

one

No. of stages

two

Capacity

26 m³ per hour

driven by

E. motor

provision is made for first charging the air receivers

E driven compressor - and hand started generator.

ging Air Pumps or Blowers, No.

How driven

ary Engines

Have they been made under survey

yes (4 in No.)

Engine Nos.

1274153/58; 1272773/78; 1367013/14;

139899/92

Makers name

Klöckner - Humboldt - Deutz AG.

Position of each in engine room

P.F.; P.A.; S.F.; S.A.

Report No.

See Hambg. Rpt. 10 601/605, 738,

199 & 988.

W : 50 KW; 8 KW & 24 KW respectively)

003487-003494-0249 1/2

Assigned
See Hensg.rpt. 10 pgs.
P.F.; P.A.; S.P.; S.A.

L.M.C. 753

Blackmer - Humboldt
Blackmer - St NW respectively)
50 KW; 8 KW & St NW respectively)

90

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23-10-52
Lloyd's Register
0249 1/2