

Rpt. 4.

YACHT
REPORT ON MACHINERY.

No. 6026

Received at London Office

SAT. DEC. 11 1920

Date of writing Report 29th Nov. 1920 When handed in at Local Office

Port of Copenhagen

No. in Survey held at Høleby & Rødbyhavn

Date, First Survey 31st Aug. 1917Last Survey 18th Sept. 1920Reg. Book. 78529 on the Steel auxiliary Tonnage 4th Dist. No. 3

"Danefolk" (Yard No. 3)

(Number of Vests 20)

Master A. A. Hansen Built at Rødbyhavn

By whom built Rødby Havn Jernskovværft

Tons Gross 1685.73

Net 1228.17

When built 1920

Engines made at Høleby

By whom made Høleby Diesel motor Fabrik

when made 1920

Boilers made at Stockholm

By whom made Messrs. Riley Bros. Ltd.

when made 1919

Registered Horse Power 320

Owners Danmarks Selskab Oceana

Port belonging to Copenhagen

Nom. Horse Power as per Section 28 58

Is Refrigerating Machinery fitted for cargo purposes No.

Is Electric Light fitted No.

ENGINES, &c.—Description of Engines 2 off, 4-stroke, cycle, single acting

No. of Cylinders 2 x 4

No. of Cranks 2 x 4

Dia. of Cylinders 300 mm

Length of Stroke 420 mm

Revs. per minute 240

Dia. of Screw shaft 152.5 mm

Material of screw shaft S.M. Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liner

Is the after end of the liner made water tight

in the propeller boss Y If the liner is in more than one length are the joints burned

If 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-corrosive

If two

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

Length of stern bush 610 mm

Dia. of Tunnel shaft 140 mm

Dia. of Crank shaft journals 170 mm

Dia. of Crank pin 170 mm

Size of Crank webs 250 x 84 mm

Dia. of thrust shaft under

collars 140 mm

Dia. of screw 1600 mm

Pitch of Screw 1180 mm

No. of Blades 4

State whether moveable No

Total surface 1.03 m²

No. of Feed pumps None

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps 2

Diameter of ditto 80 mm

Stroke 76 mm

Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2

but driven from

Suctions of Pumps 340 x 254 mm x 105 x 176 mm

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 4 off 2 1/4", 1 off 4 1/2"

In Holds, &c. 3 off 2 1/4" fr. afterhold, 2 off 2 1/4" fr. Forehold, 1 off 3" fr. F.P.

No. of Bilge Injections 2

sizes 2 1/2"

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size Yes, 4 1/2"

Are all the bilge suction pipes fitted with roses Yes

Are the roses in Engine room always accessible Yes

Are the sluices on Engine room bulkheads always accessible None

Are all connections with the sea direct on the skin of the ship Yes

Are they Valves or Cocks Valves, except donkey boiler blow off cock

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes

Are the Discharge Pipes above or below the deep water line above

Are they 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 Yes

What pipes are carried through the bunkers No bunkers

How are they protected

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

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Is the Screw Shaft Tunnel watertight No tunnel

Is it fitted with a watertight door

worked from

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

008628-008633-0166 1/2

0166 2/2

If so, is a report now forwarded? Yes.

Dates of Survey while building	During progress of work in shops - -	5/8, 19/10, 17, 30/11, 11/4, 29/5, 17/6, 21/8, 18, 15/5, 10/6, 14, 26/7, 6/9, 4/10, 10/11, 19, 20/11, 15/3, 20
	During erection on board vessel - -	9/6, 5/7, 13/9, 18/9, 20
	Total No. of visits	20

Is the annexed plan of main boiler forwarded

Manufacturer.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—			
Cylinders	30/11/18	Slides	✓
Covers	30/11/18	Pistons	3/8.17.
Rods	30/11.18	✓	
Connecting rods	31/8.17.	Crank shaft	29/5.17/6.18
Thrust shaft	19/10.17	Tunnel shafts	19/10.17 15/5/19
Screw shaft	15/5.19.	Propellers	29/5.18
Stern tube	15/3.20	Steam pipes tested	✓
Engine and boiler seatings	9/6.20.	Engines holding down bolts	13/9.20.
Completion of pumping arrangements	13/9.20	Boilers fixed	✓
Engines tried under steam	13/9. 18/9. 20		
Completion of fitting sea connections	9/6.20	Stern tubes	9/6.20.
Screw shaft and propeller	5/7.20.		

Main boiler safety valves adjusted	✓	Thickness of adjusting washers	✓
Material of Crank shaft <u>SM Steel</u>	Identification Mark on Do.	Material of Thrust shaft <u>SM Steel</u>	Identification Mark on Do.
Material of Tunnel shafts <u>SM Steel</u>	Identification Marks on Do.	Material of Screw shafts <u>SM Steel</u>	Identification Marks on Do.
Material of Steam Pipes	✓	Test pressure	✓


Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150°F. ☒

Have the requirements of Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case yes If so, state name of vessel Dane Konge, Daudroming (Yard No. 1 a

General Remarks (State quality of workmanship, opinions as to class, &c. In accordance with the Rules for Special Surveys)

we have examined the material and workmanship from the commencement of construction until the final trial of the whole machinery under working condition and found it good in every respect. The material used in construction of the engines and air receivers has been tested as required by the Rules or as per London letter E dated 11th Febr. 1915, and the dimensions are as specified and in accordance with the Rules, the approved plans and London letter E dated 11th Sept. 1917. - The air receivers have been tested in our presence by hydraulic pressure to twice the working pressure H. On the trial trip the main and aux. engines were tested under full power working condition and found to work satisfactorily and the manoeuvring of the main engines tested and found good.

Recommend the vessel's machinery to have notation of  FMC-9.20.

For Machinery plans see S.V. "Husvik"

The amount of Entry Fee	...	Rs. 25 : 50	:	} When applied for, 6. 12 19 20	
Special	...	Rs. 221 : 85	:		
Donkey Boiler Fee	...	£	:		
Travelling Expenses (if any)	...	Rs. 381 : 70	:		
				:	When received, <i>W. H. Y.</i>

A. D. French, Surveyor
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 17 DEC 1920

Assigned

+ Lm 920.
oil engines

CERTIFICATE WRITTEN

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Lloyd's Register
Foundation

Port of Copenhagen

Continuation of Report No. 6026 dated 29th Novr. 20 on the

Steel Aux. Twin Sc. 4 Mast Sr. "Dane-folk"

Ridly Havn Jernskibsvarft Yard No. 3.

List of Spare Gear.Main engines:-

- 1 cylinder over complete with valves & seats, springs &c. fitted. ✓
- 1 piston complete with connecting rod. ✓
- 4 sets of piston packing rings. ✓
- 2 crank pin bolts with nuts. ✓
- 2 main bearing bolts with nuts. ✓
- 1 set of coupling bolts for crank shaft. ✓
- 1 set of " " " intermediate shaft. ✓
- 1/2 main bearing brasses, 300 mm. ✓
- 1/2 " " " 148 " ✓
- 1/2 crank pin " " ✓
- 1/2 connecting rod top end brasses. ✓
- 1/2 thrust bearing brasses. ✓
- 4 thrust horse shoes. — 1/2 brasses for intermediate shafts. ✓
- 8 exhaust valves complete. — 4 suction valves complete. ✓
- 2 starting valves complete. 2 fuel valves complete. ✓
- 4 mouth-pieces with sprayers for fuel valves. ✓
- 8 valve spindles with nuts. ✓
- 2 starting valve spindles with thrust sockets. ✓
- 1 complete set of springs. ✓
- 1 fuel pump complete. ✓
- 1 complete set of all moving parts for the daily fuel supply pump. ✓
- 2 delivery and 2 suction valves for circulating water pump. ✓
- 2 " " 2 " " for lubricating oil pump. ✓

A quantity of assorted studs and bolts with nuts, unions and pipes &c. of the sizes used. —

Filter material for lubricating oil filter and packing material and leather collars for the fuel pumps. —

Main air compressors:- 1 piston, 6 H.P. and 3 L.P. piston packing rings, 2 H.P. and 2 L.P. delivery valves, 2 H.P. suction valves, 1 set of springs complete, 1 set of crank pin brasses, 1 set of crosshead brasses, 1 crosshead bolt, 1 top-piece for the cylinder, 1 top-piece for the working air receiver with valves complete, 4 valve spindles and 2 manometers for air receivers, 4 cooling coils for compressors. —

Auxiliary Motor:- 1 piston with packing rings, 2 sets of piston packing rings, ignition bulb, 1 exhaust valve, 1 set of valves for motor and compressor, 1 set of springs for motor and compressor, 2 mouth-pieces with strainers for fuel oil, 1 set of crank pin brasses, 1 set of connecting rod top end brasses.

A number of assorted springs for all valves and safety valves as well of the main engines as of the auxiliary motor, compressors and pumps.