

REPORT ON MACHINERY.

No. 802

Port of Bergen

RECEIVED 22 FEB 1910

Received at London Office

No. in Survey held at Bergen

Date, first Survey August 13th Last Survey February 15th 1910

Book 159

(Number of Visits 62)

on the Steel screw steamer "Skulda"

Builder Martinussen Built at Bergen By whom built Bergens Mek. Verksted

Tons { Gross 1105
Net 648
When built 1910

Engines made at Bergen By whom made Bergens Mek. Verksted when made 1910

Boilers made at Bergen By whom made Bergens Mek. Verksted when made 1910

Registered Horse Power 128 Owners William Hansen

Port belonging to Bergen

Horse Power as per Section 28 122.08

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted No

ENGINES, &c.—Description of Engines Vertical triple expansion No. of Cylinders 3 No. of Cranks 3

No. of Cylinders 16 1/2 - 26 - 44 Length of Stroke 30 Revs. per minute 84 Dia. of Screw shaft 10" Material of screw shaft Steel

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

the propeller boss 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

shafts are fitted, is the shaft lapped or protected between the liners Length of stern bush 45 1/2"

Dia. of Tunnel shaft 8 1/8" Dia. of Crank shaft journals 8 5/8" Dia. of Crank pin 8 3/4" Size of Crank webs 16 5/8 x 6" Dia. of thrust shaft under

cranks 8 3/4" Dia. of screw 12-3" Pitch of Screw 12'-6" No. of Blades 4 State whether moveable no Total surface 49

No. of Feed pumps 2 Diameter of ditto 2 1/2" Stroke 16" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 2 3/4" Stroke 16" Can one be overhauled while the other is at work yes

No. of Donkey Engines 3 Sizes of Pumps 7 1/2-8 x 4" 5 1/4-3 1/2 x 5" 4 1/2-3 1/2 x 4" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room one 2 1/2" separate suction, one 2 1/4" x 2 off, 2" dia. In Holds, &c. 2 off, 2" dia. to fore hold, 4 off, 2" dia. to

hold & one off, 2 1/4" dia. to after well. Bilge & Tank pipe arrangements all as approved

Bilge Injections one sizes 4" dia Connected to condensate circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes, one 2 1/2"

Are 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 connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both valves & cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above the deep water line yes

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

Are pipes carried through the bunkers none How are they protected ~

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

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

Date of examination of completion of fitting of Sea Connections January 12th of Stern Tube January 12th Screw shaft and Propeller January 12th

Is Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from top platform

MANUFACTURERS, &c.—(Letter for record June 23rd 09) Manufacturers of Steel The Steel Co. of Scotland, Ltd., Glasgow

Heating Surface of Boilers 2000 Is Forced Draft fitted No No. and Description of Boilers One ordinary marine

Working Pressure 145 LBS Tested by hydraulic pressure to 350 LBS Date of test January 6th No. of Certificate ~

Can boiler be worked separately ~ Area of fire grate in boiler 57 No. and Description of Safety Valves to

boiler 2 off, 8.62 Area of each valve 8.62 Pressure to which they are adjusted 145 LBS Are they fitted with easing gear yes

Distance between boilers or uptakes and bunkers 11 x 14" Mean dia. of boilers 14'-4 3/8" Length 10'-6 3/4" Material of shell plates Steel

Range of tensile strength 28-32 Are the shell plates welded or flanged yes Descrip. of riveting: cir. seams Single

Material Triple Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8.08" width of butt straps 18 1/8"

Percentage of strength of longitudinal joint rivets 95.1% Working pressure of shell by rules 180.4 LBS Size of manhole in shell 12" x 16"

Compensating ring Mc Stubs No. and Description of Furnaces in each boiler 3 Dightons Material Steel Outside diameter 3'-9 3/4"

Thickness of plates top 17" crown 17" Description of longitudinal joint ~ No. of strengthening rings ~

Working pressure of furnace by the rules 148 LBS combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 2 1/32" Top 5/8" Bottom 1"

Stays to ditto: Sides 8 x 8" Back 8 1/2 x 9 1/4" Top 7 1/2 x 8" If stays are fitted with riveted heads yes Working pressure by rules 183.2 LBS

Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 48.62 Working pressure by rules 146 End plates in steam space:

Material Steel Thickness 1 1/8" + 1/4" Pitch of stays 15 x 15 How are stays secured double mb Working pressure by rules 180.5 LBS Material of stays Steel

at smallest part 2 5/8" Area supported by each stay 225 Working pressure by rules 190 LBS Material of Front plates at bottom Steel

Material of Lower back plate Steel Thickness 7/8" Greatest pitch of stays 12-16" Working pressure of plate by rules 194.3 LBS



