

REPORT ON MACHINERY. No. 216.

Received at London Office

WED. NOV. 3. 1920

Date of writing Report 11th October 1920 When handed in at Local Office 29th October 1920 Port of Malmö
 No. in Survey held at Landskrona Date, First Survey 2nd January 1920 Last Survey 29th September 1920
 Reg. Book. 60570 on the Steel single screw steamer "Galmar Blomberg" Number of Visits 8
 Tons { Gross 2325.20
 Net 1181.17
 Master E. Hellsten - 20 Built at Landskrona By whom built AB Öresundsvarvet When built 1920-9
 Engines made at Stockholm By whom made AB. De Havals Ångturbin when made 1920
 Boilers made at Karlstad By whom made AB. Karlstads Mekan. Verkstad when made 1920
 Registered Horse Power _____ Owners Stockholms Rederiaktie Selskap Port belonging to Stockholm
 Shaft Horse Power at Full Power 1100 Is Refrigerating Machinery fitted for cargo purposes ☒ Is Electric Light fitted yes

TURBINE ENGINES, &c. — Description of Engines _____ No. of Turbines _____
 Diameter of Rotor Shaft Journals, H.P. _____ L.P. _____ Diameter of Pinion Shaft _____
 Diameter of Journals _____ Distance between Centres of Bearings _____ Diameter of Pitch Circle _____
 Diameter of Wheel Shaft _____ Distance between Centres of Bearings _____ Diameter of Pitch Circle of Wheel _____
 Diameter of Face _____ Diameter of Thrust Shaft under Collars _____ Diameter of Tunnel Shaft _____ as per rule 265th
 Diameter of same as fitted 265th
 Diameter of Propeller 14'-5" Pitch of Propeller 14'-9"
 Diameter of Rotor Drum, H.P. _____ L.P. _____ Astern _____
 Diameter of Blades 4 LINER. NOT CONTINUOUS State whether Moveable no Total Surface 720'
 Thickness at Bottom of Groove, H.P. _____ L.P. _____ Astern _____ Revs. per Minute at Full Power, Turbine _____ Propeller _____

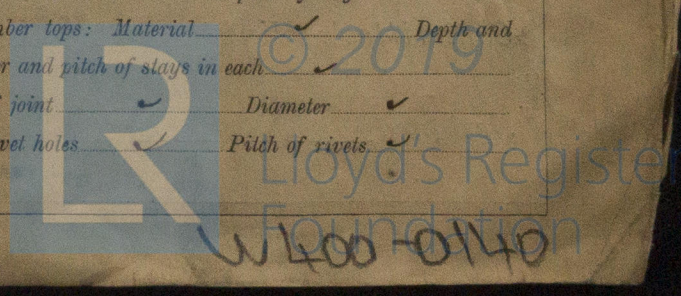
PARTICULARS OF BLADING.

H.P.			L.P.			ASTERN.		
HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION								

and size of Feed pumps Two Weirs pumps 6"x8"x21" One feed pump auxiliary "Anna Kopad" 6"x4"x10" Feed injector _____
 and size of Bilge pumps Which condenser pump 5 1/2"x5 1/2"x8" Ballast pump 7 1/2"x8 1/2"x11 3/16" All auxiliary pipes provided _____
 and size of Bilge suction in Engine Room See pumping plan retained in London with suction to bilges _____
 In Holds, &c. See pumping plan retained in London

of Bilge Injections one sizes 9 3/4" Connected to condenser to circulating pump yes Is a separate Donkey Suction fitted in Engine Room & size yes, 3 1/2"
 all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes
 all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 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
 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
 all pipes are carried through the bunkers none How are they protected _____
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from shelter deck

BOILERS, &c. — (Letter for record S) Manufacturers of Steel _____
 Heating Surface of Boilers _____ Is Forced Draft fitted yes No. and Description of Boilers 2 cyl. multitubular
 Working Pressure 200 lbs Tested by hydraulic pressure to 365 lbs Date of test 15/9/19 No. of Certificate 141 & 142
 each boiler be worked separately yes Area of fire grate in each boiler _____ No. and Description of Safety Valves to _____
 boiler 2 spring-loaded Area of each valve 11.80" Pressure to which they are adjusted 205 lbs per sq" Are they fitted with easing gear yes
 least 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 _____
 seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 percentages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 of compensating ring _____ No. and Description of Furnaces in each Boiler _____ Material _____ Outside diameter _____
 length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____
 working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 height of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____
 material of stays _____ Diameter 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 _____
 diameter 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 _____ Diameter of rivet holes _____ Pitch of rivets _____
 working pressure of shell by rules _____ Crown plates: Thickness _____ How stayed _____



SUPERHEATER. Type *Smith's patent* Date of Approval of Plan ☒ Tested by Hydraulic Pressure to *600 lbs* 4a.
Date of Test *7th January, 1919.* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *yes*
Diameter of Safety Valve *1 1/2"* Pressure to which each is adjusted ☒ Is Easing Gear fitted *yes*
IS A DONKEY BOILER FITTED? *No* If so, is a report now forwarded? ☒
SPARE GEAR. State the articles supplied:— *Please see list attached.*

The foregoing is a correct description,

AKTIEBOLAGET ÖRESUNDSVARVET

Manufacturer.

Compuget & Söner

Dates of Survey while building { During progress of work in shops -- *2/1, 12/6 1920*
During erection on board vessel --- *20/8, 30/8, 4/9, 14/9, 20/9, 29/9 1920*
Total No. of visits *8.*

Is the approved plan of main boiler forwarded herewith ☒
" " " donkey " " " ☒
Dates of Examination of principal parts—Casings ☒ Rotors ☒ Blading ☒ Gearing ☒
Rotor shaft ☒ Thrust shaft ☒ Tunnel shafts *20/8/20* Screw shaft *2/1/20 + 20/8/20* Propeller *12/6/20*
Stern tube *2/1/20* Steam pipes tested *30/8/20* Engine and boiler seatings *4/9/20* Engines holding down bolts *4/9/20*
Completion of pumping arrangements *20/9/20* Boilers fired *14/9/20* Engines tried under steam *20/9/20*
Main boiler safety valves adjusted *20/9/20* Thickness of adjusting washers *Double nuts.*
Material and tensile strength of Rotor shaft ☒ Identification Mark on Do. ☒
Material and tensile strength of Pinion shaft ☒ Identification Mark on Do. ☒
Material of Wheel shaft ☒ Identification Mark on Do. ☒ Material of Thrust shaft ☒ Identification Mark on Do. ☒
Material of Tunnel shafts *Steel* Identification Marks on Do. *Lloyd's Nos. 153, 154, 155, 156, 157* Material of Screw shafts *Steel* Identification Marks on Do. *Lloyd's Nos. 20.8.20*
Material of Steam Pipes *Seamless steel pipes* Test pressure *600 lbs per sq. in.*
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 a duplicate of a previous case *yes* If so, state name of vessel *S.S. Copenhagen, S.S. Yokohama*

General Remarks (State quality of workmanship, opinions as to class, &c. *This machinery has been fitted*

on board under the usual conditions of special survey. The workmanship appears to be good in every respect.

The machinery having been tried under steam and found working satisfactorily is eligible in my opinion to be classed **+ LMC 9, 2**
in the Society's Register Book.

It is submitted that this vessel is eligible for
THE RECORD. + LMC. 9.20 F II
2 Steam Turbines geared to 1 Screw.

Roll
10/4/20

The amount of Entry Fee ... *£14 54.60* : When applied for, *30/9 1920*
Special ... *£200.00* :
Donkey Boiler Fee ... *£* : When received, *22/10 1920*
Travelling Expenses (if any) *£* :
Exam. of forgings *£. 210.-*

Committee's Minute *FRI NOV. 26 1920*

Assigned *+ LMC 6 9.20*

CERTIFICATE WRITTEN *F. D.*

W. J. Jensen
Engineer Surveyor to Lloyd's Register of Shipping.



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