

REPORT ON MACHINERY

No. 13726

REC'D NEW YORK

June 7, 1917

Received at London Office

MON 16 JUL 1917

of writing Report _____ 10 _____ When handed in at Local Office _____ 19 _____ Port of _____
 in Survey held at _____ Date, First Survey _____ Last Survey _____
 eg. Book _____ on the _____ (Number of Visits _____) 19 _____

ster _____ Built at _____ By whom built _____ Tons { Gross _____ Net _____
 gines made at _____ By whom made _____ When built _____
 llers made at _____ By whom made _____ when made 1917
 gistered Horse Power _____ Owners _____ when made _____
 ft Horse Power at Full Power 2400 Is Refrigerating Machinery fitted for cargo purposes _____ Port belonging to _____
 Is Electric Light fitted _____

COMBINE ENGINES, &c.—Description of Engines Grand Turbine
 eter of Rotor Shaft Journals, H.P. 8" L.P. 4" Diameter of Pinion Shaft 7"
 eter of Journals H.S. PINION 4" Distance between Centres of Bearings H.S. PINION 25" Diameter of Pitch Circle H.S. GEAR 57.666
 eter of Wheel Shaft 4" Distance between Centres of Bearings H.S. GEAR 38" Diameter of Pitch Circle H.S. PINION 10.75"
 of Face 14.75" Diameter of Thrust Shaft under Collars H.S. WHEEL 54.25"
 of Screw Shafts _____ Diameter of same as per rule _____ Diameter of Propeller _____ as per rule _____
 of Blades _____ State whether Moveable _____ Total Surface _____ Diameter of Rotor Drum, H.P. _____ L.P. _____ astern _____
 nness at Bottom of Groove, H.P. _____ L.P. _____ Astern _____ Revs. per Minute at Full Power, Turbine 3380 Propeller 90

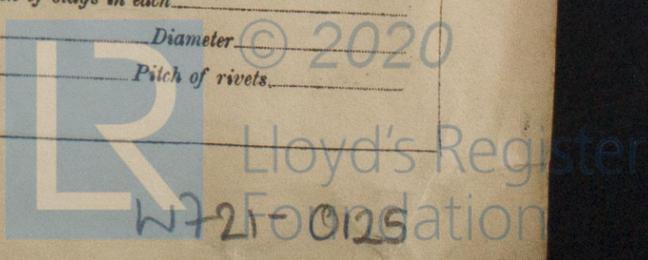
DETAILS OF BLADING.

EXPANSION	H. P.			HEIGHT OF BLADES.	L. P.			ASTERN.	
	ACTIVE HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.		DIAMETER AT TIP.	NO. OF ROWS.	ACTIVE HEIGHT OF BLADES.		DIAMETER AT TIP.
May 14	7 1/2" - 1 25"	2' - 11 1/2"	2				8 1/2" - 1 1/4"	2' - 3"	2
May 19	1 25"	3' - 7"	1				2 3/4"	3' - 3"	1
oth	2 1/4"	4' - 0"	1						
	6"	4' - 2"	1						

nd size of Feed pumps _____
 ad size of Bilge pumps _____
 nd size of Bilge suction in Engine Room _____
 In Holds, &c. _____

Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine Room & size _____
 the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____
 l connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____
 y fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Discharge Pipes above or below the deep water line _____
 y each 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 _____
 pipes are carried through the bunkers _____ How are they protected _____
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 crew Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

BOILERS, &c.—(Letter for record _____) Manufacturers of Steel _____
 Heating Surface of Boilers _____ Is Forced Draft fitted _____ No. and Description of Boilers _____
 ng Pressure _____ Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 t boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of Safety Valves to _____
 er _____ Area of each valve _____ Pressure to which they are adjusted _____ Are they fitted with easing gear _____
 distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Length _____ Material of shell plates _____
 Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 ages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 mpensating ring _____ No. and Description of Furnaces in each Boiler _____ Material _____ Outside diameter _____
 top _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____
 plain part _____ bottom _____
 pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____ End plates in steam space _____
 of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of stays _____
 Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____
 Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____
 of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 ss wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and _____
 of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
 pressure by rules _____ Steam dome: description of joint to shell _____ % of strength of joint _____ Diameter _____
 of shell plates _____ Material _____ Description of longitudinal joint _____ Diameter of rivet holes _____ Pitch of rivets _____
 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 _____

IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

E. D. Dickenson Manufacturer.
Gen'l Electric Co

Dates of Survey while building: During progress of work in shops -- Aug. 11 Dec. 11 Feb. 2
 During erection on board vessel ---
 Total No. of visits _____ Is the approved plan of main boiler forwarded herewith _____

Dates of Examination of principal parts—Casings _____ Rotors _____ Blading _____ Gearing _____
 Rotor shaft _____ Thrust shaft _____ Tunnel shafts _____ Screw shaft _____ Propeller _____
 Stern tube _____ Steam pipes tested _____ Engine and boiler seatings _____ Engines holding down bolts _____
 Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam _____
 Main boiler safety valves adjusted _____ Thickness of adjusting washers _____
 Material and tensile strength of Rotor shaft STEEL. 80,000 LBS PER SQ INCH MIN. Identification Mark on Do. E.M.S.
 Material and tensile strength of Pinion shaft " 100,000 " " " " " " Identification Mark on Do. E.M.S.
 Material of Wheel shaft STEEL Identification Mark on Do. E.M.S. Material of Thrust shaft _____ Identification Mark on Do. _____
 Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts _____ Identification Marks on Do. _____
 Material of Steam Pipes _____ Test pressure _____
 Is an installation fitted for burning oil fuel _____ 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 _____ If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, &c. *These engines have been surveyed under Special Survey in accordance with the approved plans. The materials and workmanship are sound and good. The engines have been forwarded to San Francisco to be fitted on board.*)

Certificates (if required) to be sent to _____
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

	When applied for,
The amount of Entry Fee ... £ : :	19
Special ... £ : :	
Donkey Boiler Fee ... £ : :	
Travelling Expenses (if any) £ : :	19
<i>N.Y. \$12.93</i>	

R. Salmon
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *New York JUN 12 1917*
 Assigned *See S. To. Rpt 2525*