

REPORT ON MACHINERY.

No. 7

Received at London Office.....

 of writing Report 3rd Sept 1918 When handed in at Local Office Wellsville. N.Y.

 Port of Buffalo N.Y. Date, First Survey 6th July 1918 Last Survey March 15 1919

 in Survey held at Wellsville. N.Y. on the Turbine Engines for J. Couglan Sons S.S. War Noble

 Tons { Gross 5741.12
Net 4165.97

 Built at Vancouver B.C. By whom built J. Couglan Sons When built 1918

 Engines made at Wellsville N.Y. By whom made Ther. Turbine Co. (No. 50012) when made 1918

 Cylinders made at Vancouver B.C. By whom made Vulcan Iron Works L. when made 1918

 Registered Horse Power 442 576 Owners Raeburn & Berrel Port belonging to Glasgow

 Net Horse Power at Full Power 2650 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

TURBINE ENGINES, &c.—Description of Engines Cartis Rotor Double Reduction No. of Turbines 1
 Diameter of Rotor Shaft Journals, H.P. 4.992" L.P. — Diameter of Pinion Shaft High speed 5.992" Low speed 9.487"
 Diameter of Journals HS 5.992" LS 9.487" Distance between Centres of Bearings HS 278" LS 62" Diameter of Pitch Circle HS 7.402" LS 10.878"
 Diameter of Wheel Shaft HS 6.712" LS 10.878" Distance between Centres of Bearings LS 652" Diameter of Pitch Circle of Wheel HS 58.59" LS 52.11"
 Width of Face 16" Diameter of Thrust Shaft under Collars as per rule Diameter of Tunnel Shaft as fitted
 Diameter of Screw Shafts as per rule Diameter of same as fitted Diameter of Propeller Pitch of Propeller
 State whether Moveable DISCS Diameter of Rotor 31 1/2" L.P. astern 31 1/2"
 Thickness at Bottom of Groove, H.P. L.P. Astern Revs. per Minute at Full Power, Turbine 3600 Propeller 100

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	6" 8 1"	33 1/2"	2				6" 8 1"	33 1/2"	2		
"	6" 8 1"	33 1/2"	2				6" 8 3"	35 7/8"	1		
"	2"	35 1/2"	1								
"	3"	35 1/2"	1								
"	4"	35 7/8"	1								
"	5"	36 1/8"	1								
"	6"	39 7/8"	1								
"	6 7/8"	41 3/4"	1								

and size of Feed pumps

and size of Bilge pumps

and size of Bilge suction in Engine Room

In Holds, &c.

 of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine Room & size

 all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible

 all connections with the sea direct on the skin of the ship Are they Valves or Cocks

 they 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

 they 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

 that pipes are carried through the bunkers How are they protected

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

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

 the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

 PUMPERS, &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

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

 ch 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

 ng. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

 er centages of strength of longitudinal joint 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 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

 Pitch 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 _____ 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,
Kerr Turbine Company Wellsville N.Y. Manufacturer.
H. J. Haulik Cons. Engineer.

Dates of Survey while building { During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

July 6th & 31st August 13-14-23-24

Is the approved plan of main boiler forwarded herewith _____

Dates of Examination of principal parts—Casings July 6th 31st Rotors July 6th 31st " donkey " " " Blading July 3rd Aug 13 Gearing Aug 13-14
Rotor shaft July 6th 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 O.H.S 113600 lbs

Identification Mark on Do. 964 C.F.C.

Material and tensile strength of Pinion shaft O.H.S 97200 lbs

Identification Mark on Do. 995 W.A.R.

Material of Wheel shaft O.H.S Identification Mark on Do. 305 J.D.P. 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 Yes _____ If so, state name of vessel Turbine No 50011. War Chief

General Remarks (State quality of workmanship, opinions as to class, etc.) The above machinery has been constructed under Special Survey. The material and workmanship employed in its manufacture are sound and good. It has been forwarded to Vancouver B.C. to be fitted on board J Bouglan Cons ship No

The amount of Entry Fee ... £	:	:	When applied for,
1/3 Special	\$ 70 : 00	19
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) Buffalo	£	38 : 40	19

Committee's Minute

Assigned

FRI MAY 2 - 1919

See Ver. p. 41 726

J. W. Riddell. H. H. Osborn.
Engineer Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register
Foundation

Date of writing Re
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Boilers made
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Boilers 3
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Are they fitted
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rules 208
boiler 3 mo
Description of
plates: Mater
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smallest part
Pitch of stays
Area supporte
Lower back pl
Pitch of tubes
water spaces
girder at centr
Working press
Diameter
Pitch of rivets
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