

Pressure to
the Boiler
Gear fitted

REPORT ON MACHINERY.

No. 57

REC'D NEW YORK *Dec. 12-1919*

Received at London Office

When handed in at Local Office

Port of *Pittsburgh Pa*

Survey held at *Ford City, Pa.* Date, First Survey *1918* Last Survey *1918*
on the *New Steel S.S. War Column of Loughlan & Sons* Number of Visits *1-9*
Double Reduction Gear, made by Ferguson Machine Co. Ford City, Pa. Tons { Gross *57524.8*
Net *4247.28*
D. Allie's Built at *Vancouver B.C.* By whom built *John Loughlan & Sons* When built *1918*
made at *Spokane, Wash.* By whom made *The Hallidie Co.* when made *1918*
made at *Vancouver, B.C.* By whom made *Vulcan Iron Works Co.* when made *1919*
red Horse Power *577* Owners *Imperial Munition Board* Port belonging to *London,*
Horse Power at Full Power *2800* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

NE ENGINES, &c.—Description of Engines *Double Reduction Gear Turbines* No. of Turbines *2* { *one H.P.*
one L.P.
of Rotor Shaft Journals, H.P. *1. R. 5, 2 R. 10* L.P. *1. R. 4, 2 R. 10* Diameter of Pinion Shaft *1. R. 4 1/2" 2. R. 10"*
of Journals *1. R. 5, 2 R. 10* Distance between Centres of Bearings *1. R. 2 1/2" 2. R. 5 1/2"* Diameter of Pitch Circle *1. R. 7.75" (31 teeth)*
of Wheel Shaft *1. R. 13 1/2" 2. R. 15"* Distance between Centres of Bearings *1. R. 5 1/2" 2. R. 8 1/2"* Diameter of Pitch Circle of Wheels *1. R. 46.00 (184 teeth)*
Face *2. R. 28"* Diameter of Thrust Shaft under Collars *21" Kingsbury thrust at forward end of cargo shaft.* Diameter of Tunnel Shaft *2. R. 46.00 (184 teeth)*
as per rule *as fitted*
crew Shafts *as per rule* Diameter of same *as fitted* Diameter of Propeller *as fitted* Pitch of Propeller *as fitted*
Blades *as per rule* State whether Moveable *as fitted* Total Surface *as fitted* Diameter of Rotor Drum, H.P. *as fitted* L.P. *as fitted* Astern *as fitted*
is at Bottom of Groove, H.P. *as fitted* L.P. *as fitted* Astern *as fitted* Revs. per Minute at Full Power, Turbine *3200* Propeller *90*

ICULARS 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.
PANSION									
"									
"									
"									
"									
"									
"									
"									

nd size of Feed pumps
nd 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*
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*
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
Screw Shaft Tunnel watertight *Is it fitted with a watertight door* worked from

TERS, &c.—(Letter for record)

Manufacturers of Steel
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*
each boiler be worked separately *Area of fire grate in each boiler* No. and Description of Safety Valves to
boiler *Area of each valve* Pressure to which they are adjusted *Are they fitted with easing gear*
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*
ch 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,

FAWCUS MACHINE CO.

Manufacturer.

T. B. Hunter
Works Manager

1918
Dates of Survey while building { During progress of work in shops -- Nov. 23. Dec. 4, 9, 23, 24, 27, 30 } *T. B. Hunter*
{ During erection on board vessel ---
Total No. of visits _____

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 _____ Screw shaft _____ Propeller _____

Stern tube _____ Steam pipes tested _____ Engine and boiler seatings _____ Engines holding down bolts _____

Completion of pumping arrangements _____ Boilers fired _____ Engines tried under steam _____

Main boiler safety valves adjusted _____ Thickness of adjusting washers _____

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 _____ 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. *This Reduction Gear has been built under special*

survey. The materials & workmanship are of good quality. The shop running trials proved satisfactory. The gear has been shipped to Vancouver B.C. & the Surveyors there have been notified

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

Credit to Fee to applied for by Portland Office.

Pittsburgh, Pa.
The amount of Entry Fee ... £ : : When applied for, _____
Special ... £ : : 19_____
Donkey Boiler Fee ... £ : : When received, _____
Travelling Expenses (if any) \$ 8 : 00 : 19_____
applied for by Vancouver Office July 23rd 1919.

J. Hodge
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. AUG. 20, 1919

Assigned See Minute on Ver. Rpt 746



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