

Turbine No 140152. GEARS & CASINGS No 4402.
Requisition No P.T. 39691. Serial No 21825.

REPORT ON MACHINERY.

74
TUE APR 6 1920

Writing Report Jan 14th 1920 When handed in at Local Office Jan 15th 1920 Port of Buffalo N.Y.
Survey held at Erica Pa. Date, First Survey Sept 17th 1919 Last Survey 12th Jan 1920
on the S/S "ROBIN GOODFELLOW" (Hull No C) S/N 76 (Number of Visits 56)
Gross 6860.5
Net 5722
Tons
Built at Seattle Wash By whom built Skinner & Ledy Corp When built 1920
Made at Erica Pa. By whom made General Electric Co when made 1920
Made at Seattle By whom made Commercial Boiler Works when made 1920
Horse Power 3000 Owners Admiral Line S.S. Co. (D & Skinner Mgrs) Port belonging to San Francisco
Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

NE ENGINES, &c. — Description of Engines 3000 H.P. Curtis Turbine connected to 2 plane double reduction gears No. of Turbines one
of Rotor Shaft Journals, H.P. 8" L.P. — Diameter of Pinion Shaft 4.5 7 1/8 Bore 4 3/8 L.S. 10 1/2 Bore 6 1/4 fore
of Journals H.S. 7" L.S. 10" Distance between Centres of Bearings L.S. 4-2 3/4" Diameter of Pitch Circle H.S. 7.8" L.S. 12.4"
of Wheel Shaft 15 1/2 15 1/2 at bearings Distance between Centres of Bearings 4-8 1/2" Diameter of Pitch Circle of Wheel 97.6"
Face 33" Diameter of Thrust Shaft under Collars — Diameter of Tunnel Shaft as per rule
as fitted —
Diameter of same as fitted Diameter of Propeller — Pitch of Propeller —
State whether Moveable — Total Surface — Diameter of Rotor Drum, H.P. 11" L.P. — Astern —
at Bottom of Groove, H.P. — L.P. — Revs. per Minute at Full Power, Turbine 3378 Propeller 90
GEARS 708490.

CULARS OF BLADING.

H. P.				L. P.				ASTERN			
HEIGHT OF BLADES.	PITCH	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	PITCH	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.
1ST ROW	34"	35 1/2"	2				13 1/8"	18"	39"	2"	
2ND ROW	5 1/8"	45"	1				3 3/8"	39"	39"	1"	
	1 1/2"	46 1/2"	1								
	2 1/2"	48"	1								
	6"	50"	1								

Size of Feed pumps —
Size of Bilge pumps —
Size of Bilge suction in Engine Room —
In Holds, &c. —

Is a separate Donkey Suction fitted in Engine Room & size —
Are the roses in Engine room always accessible —
Are they Valves or Cocks —
Are the Discharge Pipes above or below the deep water line —
Are the Blow Off Cocks fitted with a spigot and brass covering plate —
How are they protected —
Are the shell plates welded or flanged —
Describe of riveting: cir. seams —
Lap of plates or width of butt straps —
Size of manhole in shell —

Is it fitted with a watertight door — worked from —
Is Forced Draft fitted — No. and Description of Boilers —
Date of test — No. of Certificate —
Area of fire grate in each boiler — No. and Description of Safety Valves to —
Pressure to which they are adjusted — Are they fitted with easing gear —
Area of each valve — Mean dia. of boilers — Length — Material of shell plates —
Are the shell plates welded or flanged — Descrip. of riveting: cir. seams —
Pitch of rivets — Lap of plates or width of butt straps —
Working pressure of shell by rules — Size of manhole in shell —
No. and Description of Furnaces in each Boiler — Material — Outside diameter —
Description of longitudinal joint — No. of strengthening rings —
Combustion chamber plates: Material — Thickness: Sides — Back — Top — Bottom —
If stays are fitted with nuts or riveted heads — Working pressure by rules —
End plates in steam space —
Working pressure by rules — Material of stays —
Material of Front plates at bottom —
Working pressure of plate by rules —
Mean pitch of stays —
Girders to Chamber tops: Material — Depth and —
Number and pitch of stays in each —
Steam came: description of joint to shell — % of strength of joint —
Diameter —
Pitch of rivets —
Crown plates: Thickness — How stayed —

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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: *One high speed pinion complete with half coupling, one set of bearings for turbine & gears. One complete set of packing rings for H.P. and Diaphragm packings. One set of thrust collars. One set of pins and bushings for size of pin couplings. Two bolts for each size of bearing caps. One hundred and one bolts for turbine casing & gear casing joints. One set of coupling bolts of each size used.*

The foregoing is a correct description, *for turbine and gears only.*
General Electric Co. Manufacturer.
per Ed Williams

Dates of Survey while building { During progress of work in shops -- Jan 2, 5, 6, 7, 8 & 12, (1920)
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 *9-12-19* Rotors *9-12-19* Blading *9-12-19* Gearing *25-11-19*
12-12-19 *7-1-20* *7-1-20* *1-12-19*

Rotor shaft *9/12/19 & 7/1/20* 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 *NICKEL STEEL 80000# TO G.E. SPEC NO 504.* Identification Mark on Do. *JE*

Material and tensile strength of Pinion shaft *QUENCHED CARBON STEEL 88000# TO G.E. SPEC NO 731.* Identification Mark on Do. *JE*

Material of Wheel shaft *INGOT STEEL* Identification Mark on Do. *JE* 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 *TURBINE 140151. GEARS 4401.* If so, state name of vessel *3/5 "DAVID RODGERS" (HULL N-1)*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The turbine and gears with their*

have been constructed under Special Survey. The materials & workmanship employed in their manufacture are satisfactory. The turbine and gear have been tested in the shop & found in good order. The vessel in which are fitted will in my opinion be eligible for record of F.L.M.C. (with when satisfactorily installed & proving satisfactory under working conditions & spare gear being supplied as required by the rules.)

The amount of Entry Fee _____
1/3 FEE TO BE CREDITED
Special *TO BUFFALO.* £ _____

Donkey Boiler Fee _____

LATE FEE \$10.00

Travelling Expenses (if any) _____

CHARGED TO G.E. CO.

When applied for, _____

1920

When received, _____

19/4/20

J. Robinson & Co.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

New York MAR - 9 1920

Assigned

See Sea Rpt 933



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