

Rpt. 4a.

Report on Steam Turbine Machinery.

No. 104293

Date of writing Report

19

When handed in at Local Office

114 FEB 1947

Port of

Received at London Office

26 FEB 1947

No. in Survey held at

Newcastle-on-Tyne

Date, First Survey

20th MARCH 1946

Last Survey

10th MARCH 1947

Reg. Book

85896

on the

SS. BEAVERCOVE

(Number of Visits)

35

Built at

Glasgow

By whom built

Fairfield Co. Ltd.

Yard No.

728

Tons { Gross

Net

Engines made at

Newcastle-on-Tyne

By whom made

C.A. Parsons & Co. Ltd.

Engine No.

2692-5

When built

1946

Boilers made at

By whom made

Boiler No.

When made

1947

Shaft Horse Power at Full Power

9000

Owners

Canadian Pacific Railway Co. Ltd.

Port belonging to

London

Nom. Horse Power as per Rule

2052 2052-MN

Is Refrigerating Machinery fitted for cargo purposes

Yes

Is Electric Light fitted

Yes

Trade for which Vessel is intended

Open Service

STEAM TURBINE ENGINES, &c.—Description of Engines

Turbo-Electric

No. of Turbines

Ahead

2

Astern

Direct coupled

single reduction geared

double reduction geared

propelling shafts

No. of primary pinions to each set of reduction gearing

direct coupled to

Alternating Current Generator

3 phase

57.5 periods per second

rated

7000 Kilowatts

3000

Volts at

3450

revolutions per minute

for supplying power for driving

ONE

Propelling Motors, Type

Three phase Synchronous - Double Unit, Each Unit

rated

Kilowatts

3000

Volts at

108

revolutions per minute

Direct coupled, single or double reduction geared to

one

propelling shafts

TURBINE

BLADING.

H. P. IMALISE

H. P. REACTION

L. P.

ASTERN.

1st Expansion

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

HEIGHT OF

BLADES

DIAMETER

AT TIP

NO. OF

ROWS

2nd

INLET 5.885"

OUTLET 1.0625"

28.575"

29.375"

1

.74"

17.074"

6

.90"

21.769"

5

.90"

21.769"

5

.90"

21.769"

5

.90"

21.769"

5

3rd

Row 1. SHROUDING 3/32" THICK

Row 2. " " 1/16" "

86"

86"

5

.95"

17.314"

5

1.15"

22.269"

4

1.35"

22.669"

4

1.35"

22.669"

4

1.35"

22.669"

4

4th

SHROUDING 1/16" THICK

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12th

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SHROUDING 1/16" THICK

BOILERS, &c.—(Letter for record.....) Total Heating Surface of Boilers.....

Is Forced Draft fitted..... No. and Description of Boilers..... Working Pressure.....

Is a Report on Main Boilers now forwarded?.....

Is { a Donkey } Boiler fitted?..... If so, is a report now forwarded?.....
{ an Auxiliary }

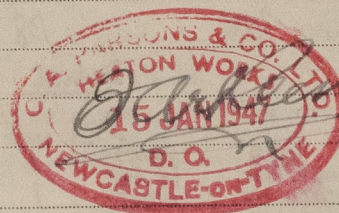
Is the donkey boiler intended to be used for domestic purposes only.....

Plans. Are approved plans forwarded herewith for Shafting..... Main Boilers..... Auxiliary Boilers..... Donkey Boilers.....
(If not, state date of approval)

Superheaters..... General Pumping Arrangements..... Oil Fuel Burning Arrangements.....

Has the spare gear required by the Rules been supplied..... *yes - As per Approved list (attached)*

State the principal additional spare gear supplied.....



The foregoing is a correct description,

Manufacturer

Dates of Survey while building: During progress of work in shops - 1946 MAR. 20, JUNE 12, JULY 15, 18, AUG. 28, SEPT. 4, 25, 30, OCT. 7, 8, 12, 14, 19, 24, 29, 31, NOV. 7, 11, 12, 14, 18;
During erection on board vessel - 22, 25, 27, DEC. 3, 28, 1947 JAN. 7, 15, 28, 31, FEB. 5, 6, 11
Total No. of visits..... 35

Dates of Examination of principal parts—Casings..... 12-6-46 etc. Rotors..... 20-3-46 etc. Blading..... 8-10-46 etc. Gearing.....

Wheel shaft..... Thrust shaft..... Intermediate shafts..... Tube shaft..... Screw shaft.....

Propeller..... Stern tube..... Engine and boiler seatings..... Engine holding down bolts.....

Completion of fitting sea connections..... Completion of pumping arrangements..... Boilers fixed..... Engines tried under steam.....

Main boiler safety valves adjusted..... Thickness of adjusting washers.....

Rotor shaft Material and tensile strength..... O.H. STEEL - HP: - 39.9 TONS/INS². LP (MAIN) - 39.9 TONS/INS². (STUB) - 39.2 TONS/INS². Identification Mark.....

Alternator Rotor. Piston Shaft, Material and tensile strength..... O.H. STEEL - 38.1 TONS/INS². Identification Mark.....

Motor. Piston shaft, Material and tensile strength..... O.H. STEEL - 30.8 TONS/INS². Identification Mark.....

Aux Gen. Rotor. 1st Reduction Wheel Shaft, Material and tensile strength..... O.H. STEEL - 31.3 TONS/INS². Identification Mark.....

Wheel shaft, Material..... Identification Mark..... Thrust shaft, Material..... Identification Mark.....

Intermediate shafts, Material..... Identification Marks..... Tube shaft, Material..... Identification Marks.....

Screw shaft, Material..... Identification Marks..... Steam Pipes, Material..... Test pressure.....

Date of test..... 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 the Rules for the use of oil as fuel been complied with.....

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo..... If so, have the requirements of the Rules been complied with.....

If the notation for ice strengthening is desired, state whether the requirements in this respect have 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.).....

Special Survey in accordance with Approved Plans - Society's Rules and Secretary's letters
The Materials and workmanship are good.
The Machinery has been despatched to Glasgow.

Forging Reports etc attached

The amount of Entry Fee ... £ : : When applied for.
Special ... £ 91 : - : 25 FEB 1947
Donkey Boiler Fee ... £ : : When received.
Travelling Expenses (if any) £ : : 19

Engineer Surveyor to Lloyd's Register of Shipping.



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