

No. 2320

TRANSFERRED TO:
L. R. SYSTEM

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. *2337* No. in Register Book *3739*

" " TRANSFERRED TO:
L. R. SYSTEM
S.S. *NODZU*

Makers of Engines *Swansea Dock Co. Ltd.*

Works No. *362*

Makers of Main Boilers *Blair No (926) Ltd.*

Works No. *C. 420*

Makers of Donkey Boiler *✓*

Works No. *✓*

MACHINERY.



TRANSFERRED TO:
L. R. SYSTEM

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Foundation

010096-010102-0002

No.

THE BRITISH CORPORATION FOR THE SURVEY
AND
REGISTRY OF SHIPPING.

Report No. No. in Register Book

Received at Head Office

15th February 1930

Surveyor's Report on the New Engines, Boilers, and Auxiliary
Machinery of the ~~Single Engine~~ Single Engine Secret Trawler

"hadku"

Official No.

Port of Registry

Cardiff

Registered Owners

Heale West

Engines Built by

Smiths Dock Co. Ltd.
South Bank-on-Sea

at

Main Boilers Built by

Blair Co. (1926) Ltd.
Stockton-on-Sea

at

Donkey

at

Date of Completion

12-29

First Visit

12-8-29

Last Visit

11-12-29

Total Visits

30

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RECIPROCATING ENGINES.

Works No. 362

No. of Sets 1

Description

Triple expansion.
S.C. Berke.

No. of Cylinders each Engine 3

No. of Cranks 3

Diars of Cylinders

13 1/4" - 23" - 37"

Stroke 27"

Cubic feet in each L.P. Cylinder

16.8

Are Spring-loaded Relief Valves fitted to Top and Bottom of each Cylr?

" " each Receiver?

Type of I.P. Valves,

1st I.P. "

2nd I.P.,,

L.P. "

" Valve Gear

" Condenser

Cooling Surface

sq. ft.

Diameter of Piston Rods (plain part)

Screwed part (bottom of thread)

Material "

Diar. of Connecting Rods (smallest part)

Material

" Crosshead Gudgeons

Length of Bearing

Material

No. of Crosshead Bolts (each)

Diar. over Thrd.

Thrds. per inch

Material

" Crank Pin " "

"

"

"

" Main Bearings

Lengths

" Bolts in each

Diar. over Thread

Threads per inch

Material

" Holding Down Bolts, each Engine

Diar.

No. of Metal Checks

Are the Engines bolted to the Tank Top or to a Built Seat?

Are the Bolts tapped through the Tank Top and fitted with Nuts Inside?

If not, how are they fitted?

Connecting Rods, Forged by

Brown Bros.

Piston " "

Crossheads,

Connecting Rods, Finished by

Cuntho & Co. Ltd.

Piston " "

Crossheads,

Date of Harbour Trial

4-12-29

" Trial Trip

11-12-29

Trials run at

In North Sea.

Were the Engines tested to full power under Sea-going conditions?

Yes.

If so, what was the I.H.P.?

540

Revs. per min.

107

Pressure in 1st I.P. Receiver, 60 lbs., 2nd I.P.,

lbs., L.P., 10 Vacuum, 26 ins.

Speed on Trial

12 knots.

If the Conditions on Trial were such that full power records were not obtained give the following estimated

data:—

Builders' estimated I.H.P.

Revs. per min.

Estimated Speed



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TURBO-ELECTRIC PROPELLING MACHINERY.

No. of Turbo-Generating Sets Capacity of each

Type of Turbines employed

Description of Generators

No. of Motors driving Propeller Shafting

Are the Propeller Shafts driven direct by the Motors or through Gearing?

Is Single or Double Reduction Gear employed?

Description of Motors

Diar. of 1st Reduction Pinion } Width Pitch of Teeth
 " 1st " Wheel }

Estimated Pressure per lineal inch

Diar. of 2nd Reduction Pinion } Width Pitch of Teeth
 " 2nd " Wheel }

Estimated Pressure per lineal inch

Revol. per min. of Generators at Full Power

" " Motors "

" " 1st Reduction Shaft

" " 2nd "

" " Propellers at Full Power

Total Shaft Horse Power

Date of Harbour Trial

" Trial Trip

Trials run at

Speed on Trial Knots. Propeller Revol. per min. S.I.P.

Makers of Turbines

" Generators

" Motors

" Reduction Gear

Turbine Spindles forged by

" Wheels forged or cast by

Reduction Gear Shafts forged by

" Wheels forged or cast by

DESCRIPTION OF INSTALLATION.



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SHAFTING.

Are the Crank Shafts Built or Solid ?

No. of Lengths in each Angle of Cranks

Diar. by Rule Actual In Way of Webs

 " of Crank Pins Length between Webs

Greatest Width of Crank Webs Thickness

Least " " " " "

Diar. of keys in Crank Webs Length Screwed or Plain

 " Dowels in Crank Pins Length Screwed or Plain

No. of Bolts each Coupling Diar. at Mid Length Diar. of Pitch Circle

Greatest Distance from Edge of Main Bearing to Crank Web

Type of Thrust Blocks

No. " Rings

Diar. of Thrust Shafts at bottom of Collars No. of Collars

 " " " Forward Coupling At Aft Coupling

Diar. of Intermediate Shafting by Rule Actual No. of Lengths

No. of Bolts, each Coupling Diar. at Mid Length Diar. of Pitch Circle

Diar. of Propeller Shafts by Rule Actual At Coupling

Are Propeller Shafts fitted with Continuous Brass Liners ?

Diar. over Liners Length of After Bearings

Of what Material are the After Bearings composed ?

Are Means provided for lubricating the After Bearings with Oil ?

 " " " to prevent Sea Water entering the Stern Tubes ?

If so, what Type is adopted ?

same as s/s

SKETCH OF CRANK SHAFT.

Handwritten notes and sketches on the right page, including a diagram of a crankshaft and various measurements.

Handwritten notes in a box:
 30-8-92
 R.R.G.
 17011
 P.F.C.

Handwritten signature:
 Frank Lloyd Wright



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No. of Blades each Propeller ⁴
 Material of Blades ^{C.S.}
 Pitted or Solid? ^{solid.}
 Boss ^{C.S.}
 Diar. of Propellers ^{10'0"} Pitch ^{11'3"} Surface (each ³⁹ S. ft.)
 Coefficient of Displacement of Vessel at $\frac{1}{2}$ Moulded Depth

Crank Shafts Forged by ^{Yife Yorgeloy.} Material ^{I.P.}
 „ Pins „ „ „ „ }
 „ Webs „ „ „ „ } @
 Thrust Shafts „ „ „ „ }
 Intermed. „ „ „ „ }
 Propeller „ „ „ „ }
 Crank „ Finished by „ „ „ }
 Thrust „ „ „ „ }
 Intermed. „ „ „ „ }
 Propeller „ „ „ „ }

STAMP MARKS ON SHAFTS.

Crank. Thrust
 & Tail Shafts: —

B.C.
 No 911
 30-8-29
 R.S.

SKETCH OF PROPELLER SHAFT.

No. of Air Pumps
 Worked by Main or Independent Engines?
 No. of Cross-hair Pumps
 Type of
 Diar. of Section from Sea
 Diar.
 How each Pump is fitted to each Valve?
 What other Pumps can circulate through Condenser?
 No. of Feed Pumps on Main Engines
 Are Spring-loaded Relief Valves fitted to each Pump?
 Can one Pump be overhauled while the others are at work?
 No. of Independent Feed Pumps
 What other Pumps can feed the Boilers?
 No. of Bilge Pumps on Main Engines
 Can one Pump be overhauled while the others are at work?
 No. of Independent Bilge Pumps
 What other Pumps can draw from the Bilges?
 Are all Bilge Suction fitted with Locks?
 Are the Valves, etc. so arranged as to prevent any accidental connection between Sea and Bilges?
 Are all Gas Connections made with Valves or Cocks next the Ship's side?
 Are they placed so as to be easily accessible?
 Are the Locks, etc. placed above or below the Prop. Shaft Line?
 Are they fixed direct to the Shaft Flange and easily accessible?
 Are all Shafts of the Propeller fitted with Flange through the Hull Flange and Covering Plates or Flanges on the Outside?

40/2
 5/2
 20/2



Are the Water Gauges fitted direct to the Boiler Shells or mounted on Pillars? *on pillars.*

Are the Water Gauge Pillars fitted direct to the Boiler Shells or connected by Pipes? *direct.*

Are these Pipes connected to Boilers by Cocks or Valves?

Are Blow-off Cocks or Valves fitted on Boiler Shells?

No. of Strakes of Shell Plating in each Boiler

Plates in each Strake

Thickness of Shell Plates Approved

in Boilers

Are the Rivets Iron or Steel?

Are the Longitudinal Seams Butt or Lap Joints?

Are the Butt Straps Single or Double?

Are the Double Butt Straps of equal width?

Thickness of outside Butt Straps

inside

Are Longitudinal Seams Hand or Machine Riveted?

Are they Single, Double, or Treble Riveted?

No. of Rivets in a Pitch

Diar. of Rivet Holes

Pitch

No. of Rows of Rivets in Centre Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

No. of Rows of Rivets in Front End Circumferential Seams

Are these Seams Hand or Machine riveted?

Diar. of Rivet Holes

Pitch

No. of Rows of Rivets in Back End Circumferential Seams

Are these Seams Hand or Machine Riveted?

Diar. of Rivet Holes

Pitch

Size of Manholes in Shell

Dimensions of Compensating Rings

Handwritten notes and numbers:
3
plain
18-6-29
180 lbs
320
24-10-
4-
"OK"
same as sps OK
10-9
1980
5-5
2 3/4

Thickness of End Plates in Steam Space Approved

in Boilers

Pitch of Steam Space Straps

Diar. of Straps Approved

in Boilers

Material of

How are Straps Secured?

Plan and Thickness of Loose Washers on End Plates

Riveted

Double Straps

Thickness of Middle Back End Plates Approved

in Boilers

Thickness of Doublings in Wide Spaces between Trilobes

Pitch of Straps

Diar. of Straps Approved

in Boilers

Material of

Are Straps fitted with nuts outside?

Thickness of Back End Plates at Bottom Approved

in Boilers

Pitch of Straps in Wide Spaces between Trilobes

Thickness of Doublings in

Handwritten notes:
Plain
1/2
OK



Thickness of End Plates in Steam Space Approved *on pillars*

Are the Washers *in Boilers* Riveted *direct*

Pitch of Steam Space Stays *Stays by Cook at Yalpa?*

Diar. *Stays* Approved *Boiler* Threads per Inch *values*

Material of *Stays* in Boilers *Boiler*

How are Stays Secured? *Approved*

Diar. and Thickness of Loose Washers on End Plates

Are the *Washers* Riveted *Stays*

Width *Stays* Doubling Strips *Stays*

Are the *Stays* Single or *Double*

Thickness of Middle Back End Plates Approved

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at *Stays*

Diar. of Stays Approved *Stays* Threads per Inch *values*

Material *Stays* in Boilers *Boiler*

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in *Stays*

No. of Rows of Rivets in Back End *Stays*

Thickness of Front End Plates at Bottom Approved

No. of Longitudinal Stays in Spaces between Furnaces

Same as st's 6ku

Thickness of End Plates in Steam Space Approved

Are the Washers Riveted

Pitch of Steam Space Stays

Diar. of Stays Approved Threads per Inch

Material of Stays in Boilers

How are Stays Secured?

Diar. and Thickness of Loose Washers on End Plates

Are the Washers Riveted

Width of Stays Doubling Strips

Are the Stays Single or Double

Thickness of Middle Back End Plates Approved

Thickness of Doublings in Wide Spaces between Fireboxes

Pitch of Stays at

Diar. of Stays Approved Threads per Inch

Material of Stays in Boilers

Are Stays fitted with Nuts outside?

Thickness of Back End Plates at Bottom Approved

Pitch of Stays at Wide Spaces between Fireboxes

Thickness of Doublings in

No. of Rows of Rivets in Back End

Thickness of Front End Plates at Bottom Approved

No. of Longitudinal Stays in Spaces between Furnaces

Same as st's 6ku



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Diar. of Stays Approved Threads per Inch

.. .. in Boilers

Material ..

Thickness of Front Tube Plates Approved

.. .. in Boilers

Pitch of Stay Tubes at Spaces between Stacks of Tubes

Thickness of Doublings in

.. Stay Tubes at

Are Stay Tubes fitted with Nuts at Front End

Thickness of Back Tube Plates Approved

.. .. in Boilers

Pitch of Stay Tubes in Back Tube Plates

.. Plain ..

Thickness of Stay Tubes

.. Plain ..

External Diar. of Tubes

Material ..

Thickness of Furnace Plates Approved

.. .. in Boilers

Smallest outside Diar. of Furnaces

Length between Tube Plates

Width of Combustion Chambers (Front to Back)

Thickness of Tops Approved

.. .. in Boilers

Pitch of Screwed Stays in C.O. Tops

same as sps bkn



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Diam. of Screwed Stays Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Sides Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Sides

Diam. " " Approved Threads per Inch

" " " in Boilers

Material " "

Thickness of Combustion Chamber Backs Approved

" " " " in Boilers

Pitch of Screwed Stays in C.C. Backs

Diam. " " Approved Threads per Inch

" " " in Boilers

Material " "

Are all Screwed Stays fitted with Nuts inside C.O.?

Thickness of Combustion Chamber Bottoms

No. of Girders over each Wing Chamber

" " " Centre "

Depth and Thickness of Girders

Material of Girders

No. of Stays in each

No. of Tubes, each Boiler

Size of Lower Manholes

Measure "sps" taken

VERTICAL DONKEY BOILERS

Type
Diameter Int. Diam.
Height of Boiler Crown above Fire Grate
Are Boiler Crown Flat or Dished?
Internal Radius of Burning Boilers
Description of Stays in Boiler Crown
Diam. of Rivet Heads
Height of Trough Crown above Fire Grate
Are Trough Crown Flat or Dished?
External Radius of Burning Crown
Diam.
No. of Crown Stays
External Diam. of Trough at Top
Bottom
Thickness of Taper
No. of Water Tubes
External of Water Tubes
Diam. of Manhole in Shell
Dimensions of Combustion Chamber
Gate Surface
Location Surface each Boiler

SUPERHEATERS

Description of Superheaters
Where situated?
Which Boilers are connected to Superheaters?
Can Superheaters be shut off while Boilers are working?
No. of Water Tubes each Superheater
Diam. of Water Tubes
Rate of Water Flow
Diam. of Steam Pipes
Location on Boilers



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VERTICAL DONKEY BOILERS.

No. of Boilers Type

Greatest Int. Diar. Height

Height of Boiler Crown above Fire Grate

Are Boiler Crowns Flat or Dished? *As Approved*

Internal Radius of Dished Ends *In Boilers* Thickness of Plates

Description of Seams in Boiler Crowns

Diar. of Rivet Holes *Approved* Pitch *Thickness of Plates* Width of Overlap

Height of Firebox Crowns above Fire Grate

Are Firebox Crowns Flat or Dished?

External Radius of Dished Crowns Thickness of Plates

No. of Crown Stays *As Approved* Diar. *Material*

External Diar. of Firebox at Top *Bottom* Thickness of Plates

No. of Water Tubes *As Approved* Ext. Diar. *Thickness*

Material of Water Tubes *As Approved*

Size of Manhole in Shell *As Approved*

Dimensions of Compensating Ring

Heating Surface, each Boiler *Grate Surface*

SUPERHEATERS.

Description of Superheaters

No. of Boilers over each *As Approved*Where situated? *As Approved*

Which Boilers are connected to Superheaters?

Can Superheaters be shut off while Boilers are working?

No. of Safety Valves on each Superheater *Diar.*

Are " " fitted with Easing Gear?

Date of Hydraulic Test *Test Pressure*Date when Safety Valves set *Pressure on Valves*

MAIN STEAM PIPES.

No. of Length

Material

Fixed, Welded or Bolted

Internal Diar.

Thickness

How are Joints secured?

Date of Hydraulic Test

Test Pressure

No. of Length

Material

Fixed, Welded or Bolted

Internal Diar.

Thickness

How are Joints secured?

Date of Hydraulic Test

Test Pressure

No. of Length

Material

Fixed, Welded or Bolted

Internal Diar.

Thickness

How are Joints secured?

Date of Hydraulic Test

Test Pressure



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MAIN STEAM PIPES.

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

STEAM LABORATORIES LIST

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Diam.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

Same as sp. Oku

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.

1
Copper.
S.D.
4
6 W.P.
braced.
28-11-29
400 lbs.



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MAIN EVAPORATORS.

No. Type Tons per Day

Makers

Working Pressure Test Pressure Date of Test

Date of Test of Safety Valves under Steam

Thickness

How are Flanges secured?

Date of Hydraulic Test

FEED WATER HEATERS.

No. Type *D.C.*
 Makers *Rabeys Son*
 Working Pressure *180 lbs.* Test Pressure *400 lbs.* Date of Test *1-11-29*

No. of Lengths

Material

Brazed, Welded or Seamless

FEED WATER FILTERS.

No. Type Size

Makers

Working Pressure Test Pressure Date of Test

Date of Hydraulic Test

Test Pressure

No. of Lengths

Material

Brazed, Welded or Seamless

Internal Dia.

Thickness

How are Flanges secured?

Date of Hydraulic Test

Test Pressure

LIST OF DONKEY PUMPS.

Same as c/s Oku

Feed Pump Valves	Feed Pump Valves	Feed Pump Valves	Feed Pump Valves
L.L. Patten Rings	L.L. Patten Rings	L.L. Patten Rings	L.L. Patten Rings
Feed Check Valves	Feed Check Valves	Feed Check Valves	Feed Check Valves
Valve Spindles	Valve Spindles	Valve Spindles	Valve Spindles
Air Pump Valves	Air Pump Valves	Air Pump Valves	Air Pump Valves
Crown Valves	Crown Valves	Crown Valves	Crown Valves
Propeller Blades	Propeller Blades	Propeller Blades	Propeller Blades
Condenser Tubes	Condenser Tubes	Condenser Tubes	Condenser Tubes

40/30

3/4

30-20-10

OTHER DETAILS OF EACH CASE.



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REFRIGERATORS.

No. of Machines _____ Capacity of each _____
 Makers _____
 Description _____
 H.P. Piston Rings _____ L.P. Piston Rings _____
 Springs _____
 No. of Steam Cylinders, each Machine _____ No. of Compressors _____ No. of Cranks _____
 Particulars of Pumps in connection with Refrigerating Plant and whether worked by Refrigerating Machines
 or Independently _____
 Air Pipes _____ Air Trunk Valves _____
 Oil _____
 Crank Shafts _____
 Propeller Shafts _____
 Boiler Tubes _____ Condenser Tubes _____
 Condenser Coils _____
 Propeller Shafts _____
 Condenser Coils _____

OTHER ARTICLES OF SPARE GEAR:—

System of Refrigeration

„ Insulation

Are Brine and other Regulating Valves placed so as to be accessible without entering the Insulated Spaces?

Are all Pipes, Air Trunks, &c. well secured and protected from risk of damage?

Are all Bilge, Sounding and Air Pipes in Insulated Spaces properly insulated?

Are Thermometer Tubes so arranged that Water cannot enter and freeze in them?

Date of Test under Working Conditions

RESULTS OF TRIALS.

COMPARTMENT.	Temp. at beginning of Trial.	Temp. at end of Trial.	Time required to obtain this Result.	Rise of Temp. after hours.
No. and				
Makers of Dynamometer				
Capacity	45	100	500	
Current Alternating or Continuous				
Single or Double Wire System				
Position of Dynamometer				
Main Switch Engaged				
No. of Circuits to which dynamometer is connected on Main Switch Board				
Particulars of these Circuits:—				
Circuit				

Articles of Spare Gear for Refrigerating Plant carried on board:—



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Total No. of Locks

No. of Stoppers

Current required for Mains and Standby

Positions of Auxiliary Switch Boards, with No. of Switches on each

R. Thompson
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Location of Dynamometer	Position of Main Switch Board	No. of Circuits to which switches are provided

Are Cut-outs fitted as follows?—

On Main Switch Board, to Cables of Main Circuits

On Aux. " " each Auxiliary Circuit

Wherever a Cable is reduced in size

To each Lamp Circuit

To both Flow and Return Wires of all Circuits when the Double-Wire System is adopted

Are the Fuses of Standard Sizes?

Are all Switches and Cut-outs constructed of Non-inflammable Material?

Are they placed so as to be always and easily accessible?

Smallest Single Wire used, No. S.W.G., Largest, No. S.W.G.

How are Conductors in Engine and Boiler Spaces protected?

" " Saloons, State Rooms, &c., " ?

What special protection is provided in the following cases?—

(1) Conductors exposed to Heat or Damp

(2) " " passing through Bunkers or Cargo Spaces

(3) " " Deck Beams or Bulkheads

Amey's oku

Are all Joints in Cables properly soldered and thoroughly Insulated so that the efficiency of the Cables is unimpaired?

Are all Joints in accessible positions, none being made in Bunkers or Cargo Spaces?

Are all Hull Connections for Single-Wire Systems made with Screws of large Surface?

Are the Dynamos, Motors, Main and Branch Cables, so placed that the Compasses are not injuriously affected by them?

Have Tests been made to prove that this condition has been satisfactorily fulfilled?

Has the Insulation Resistance over the whole system been tested?

What does the Resistance amount to?

Ohms.

Is the Installation supplied with a Voltmeter?

" " " an Ampere Meter

Date of Trial of complete Installation 11-12-29, Duration of Trial

6 hrs.

Have all the requirements of Section 42 been satisfactorily carried out? *yes.*



GENERAL CONSTRUCTION.

Have the Machinery and Boilers been constructed in accordance with the requirements of the Rules and the

Approved Plans? *yes.*

If not, give details of the points of difference, and state when these were sanctioned by the Chief

Surveyor.

Are the Materials used in the Construction of Engines and Boilers, so far as could be seen, sound and

trustworthy *yes.*

Is the Workmanship throughout thoroughly satisfactory? *yes.*

The above correctly describes the Machinery of the S.S. "NODZU"

as ascertained by *me* from personal examination

J. D. Stephenson
 Engineer Surveyor to the British Corporation for the
 Survey and Registry of Shipping.

Fees—

MAIN BOILERS.		£	s.	d.
H.S.	<i>1980</i> Sq. ft.	:	:	
G.S.	<i>55.5</i> "	:	:	
DONKEY BOILERS.				
H.S.	<i>✓</i> Sq. ft.	:	:	
G.S.	<i>✓</i> "	:	:	
		£	:	:
ENGINES.				
L.P.C.	<i>16.8</i> Cub. ft.	:	:	
		£	:	:
Testing, &c. ...		:	:	
		£	:	:
Expenses ...		:	:	
Total ...		£	:	:

It is submitted that this Report be approved,

James Barr for Chief Surveyor.

Approved by the Committee for the Class of M.B.S.* on the *19th February 1930*

Fees advised

Fees paid



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