

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

-5 AUG 1925

Date of writing Report 25-7-1925 When handed in at Local Office 27-7-1925 Port of Greenock
 No. in Survey held at Port Glasgow Date, First Survey 12th January, 1925 Last Survey 29th July 1925
 Reg. Book. on the Twin Screw Hopper Dredger. N° 35. (Number of Visits 31) Tons Gross 1101
Net 465
 Built at Port Glasgow By whom built Ferguson Bros (Port Glasgow) Sta Yard No. 246. When built
 Engines made at " By whom made " Engine No. 246 when made 1925
 Boilers made at Greenock By whom made J. & G. Kincaid & Co. Boiler No. 162. when made 1925
 Registered Horse Power " Owners Mersey Docks & Harbour Board Port belonging to Liverpool
 Nom. Horse Power as per Rule 210 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Twin Screw Triple.

Dia. of Cylinders 15-25-40 Length of Stroke 24 Revs. per minute 125 No. of Cylinders 6 No. of Cranks 6
 Dia. of Crank shaft journals as per rule 4.53 Dia. of Crank pin 4 3/4 Crank webs Mid. length breadth 14 3/4 Thickness parallel to axis 5 1/16
as fitted 4 3/4 Mid. length thickness 5 1/16 shrunk Thickness around eye-hole 3 1/2
 Diameter of Thrust shaft under collars as per rule 4.53 Diameter of Tunnel shaft as per rule 4 1/4 Diameter of Screw shaft as per rule 8.2 Is the Screw shaft
as fitted 4 3/4 as fitted 8 1/4
 fitted with a continuous liner the whole length of the stern tube No liners Is the after end of the liner made watertight in the propeller boss Yes
 If the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive Yes
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved appliance fitted at the after end of the shaft to permit
 of it being efficiently lubricated yes. Ferguson type Length of Stern Bush 3'-11 1/2" Diameter of Propeller 9'-3"
 Pitch of Propeller 11'-9" No. of Blades 3 State whether Moveable No Total Surface 28 1/4 square feet.
 No. of Feed Pumps fitted to the Main Engines 4 Diameter of ditto 2 7/8" Stroke 13" Can one be overhauled while the other is at work yes
 No. of Bilge Pumps fitted to the Main Engines 4 Diameter of ditto 2 7/8" Stroke 13" Can one be overhauled while the other is at work yes
 Total number and size of power driven Feed and Bilge Auxiliary Pumps Feed 1-5'x4'x12". 1-6'x8 1/2'x18". Bilge 1-8'x10 1/2'x18".
 No. and size of Pumps connected to the Main Bilge Line One - 8'x10 1/2'x18". 1 main bilge pump.
 No. and size of Ballast Pumps Yes No. and size of Lubricating Oil Pumps, including Spare Pump None.
 Are two independent means arranged for circulating water through the Oil Cooler None. No. and size of suctions connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room Three - 3" diam. 1-STOKEHOLD OIL and in Holds, &c. One - for hold 3" dia.
One - 3" port bunker. One - 3" star bunker. One - 3" port buoyancy comp't. One - 3" star buoyancy
comp't. One - 3" port oil gutterway. One - 3" star oil gutterway.
 No. and size of Main Water Circulating Pump Bilge Suctions Two - 5" diam. No. and size of Donkey Pump Direct Suctions
 to the Engine Room Bilges One 3 1/4" diam. Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes.
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes.
 Are all connections with the sea direct on the skin of the ship Yes. Are they Valves or Cocks both.
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes. Are the Discharge Pipes above or below the deep water line above.
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes. Are the Blow Off Cocks fitted with a spigot and brass covering plate yes.
 What Pipes are carried through the bunkers Bilge suction to fore compartments and steam to cranes. How are they protected Watertight steel pipe.
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one
 compartment to another Yes. Is the Screw Shaft Tunnel watertight None. Is it fitted with a watertight door Yes worked from Yes

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 3800 sq ft
 Is Forced Draft fitted No. No. and Description of Boilers Two. Single ended. Working Pressure 180 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.
 IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded? Yes.

PLANS. Are approved plans forwarded herewith for Shafting Yes. Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers Yes
 (If not state date of approval)
 General Pumping Arrangements Yes. Oil fuel Burning Piping Arrangements Yes.

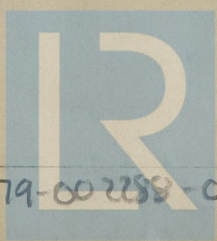
SPARE GEAR. State the articles supplied:—Two propellers. 1 pair Crank pin brasses. One set of coupling bolts
2 main bearing bolts & nuts. 2 top end bolts & nuts. 2 bottom end bolts & nuts. 1 set of feed pump
valves & seats for main & auxiliary feed pumps. 1 set of air pump valves. 2 eccentric strap
bolts & nuts. 4 feed check valves. 24 condenser tubes. 2 bilge pump valves 50 fine bars.
1 set of springs for safety valves. 12 boiler tubes. Assorted bolts and nuts.
Iron of various sizes.

The foregoing is a correct description,

FERGUSON BROTHERS (PORT GLASGOW) LTD.

P. Ferguson

Manufacturer.



© 2020

Lloyd's Register
Foundation

002279-002288-0028

PILLARS,

"

"

"

"

Centre

Stiffener

Plating

STRINGER

Upper

Stringer

"

"

Thickne

in we

in w

Thickne

in we

If Sheat

Second

Stringer

STRA

FLAT PLATE

"

BOTTOM PL

of Strakes

BILGE PLATIN

Strakes ...

SIDE PLATIN

Strakes ...

UPPER DECK

strake in

UPPER DECK

strake in

STRAKE BELC

strake in

STRAKE BELC

strake in

POOR SIDE P

BRIDGE SIDE

FORWARD THE S

Total No. o

MIDSHIP

"

"

"

"

"

COLLISION

AFTER PEAK

Dates
of Survey
while
building

During progress of
work in shops - -

During erection on
board vessel - - -

Total No. of visits

31.

Dates of Examination of principal parts - Cylinders

Slides

Covers

Pistons

Rods

Connecting rods

Crank shaft

Thrust shaft

Tunnel shafts

Screw shaft

Propeller

Stern tube

Engine and boiler seatings

Engines holding down bolts

Completion of pumping arrangements

Boilers fixed

Engines tried under steam

Completion of fitting sea connections

Stern tube

Screw shafts and propellers

Main boiler safety valves adjusted

Thickness of adjusting washers

Material of Crank 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

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 carrying and burning oil fuel been complied with

Is this machinery duplicate of a previous case

If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.

been built under special survey in accordance with the Rules and the approved plans.

They have now been securely fitted on board the vessel, and tried under full power with satisfactory results.

The materials and workmanship are good.

The machinery of this vessel, is eligible, in our opinion for record of + L M C 7-25.

It is recommended that
this vessel is eligible for
the RECORD. + L M C 7-25. O.G.

1/8/25

Certificate to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ 4 : 0 : 0

When applied for,

Special 3/5 ... £ 31 : 10 : 0

1-8-1925

Donkey Boiler Fee ... £ ✓ : :

When received,

Travelling Expenses (if any) £ ✓ : :

3-8-1925

Committee's Minute

Assigned + L M C 7,25

Engineer Surveyor to Lloyd's Register of Shipping.



© 2020

Lloyd's Register
Foundation

Rpt. 5a.

Date of writing

No. in

Reg. Book

on

Master

Engines made

Boilers made

Registered H

MULTITU

(Letter for re

Boilers

No. of Certif

safety valves

Are they fitted

Smallest dist

Material of s

Descrip. of r

rules

boiler 360

Description of

plates: Mate

Top 9 1/2" x 8"

smallest part

Pitch of stay

Area support

Lower back p

Pitch of tubes

water spaces

girder at cent

Working pres

Diameter

Pitch of rivets

SUPERHE

Date of Test

Diameter of S

Dates

of Survey

while

building

GENERAL

Survey Fe

Travelling

Committee

Assigned