

Rpt. 4.

# REPORT ON MACHINERY.

No. 36925

Received at London Office 21 MAR 1926

Date of writing Report

19

When handed in at Local Office

24/3 1926

Port of

Hull.

No. in Survey held at Reg. Book.

Hull.

Date, First Survey

29-10-25

Last Survey

11-3-

1926

on the

Steam Trawler "HANNES RADHERRA"

(Number of Visits

28

Tons

Gross 451

Net 183

Master

Built at

Beverly

By whom built

Cook, Wilton & Gemmill (M. 480)

When built

1926

Engines made at

Hull

By whom made

Amos & Smith Ltd. (M. 3686)

when made

1926

Boilers made at

Hull

By whom made

Amos & Smith Ltd (M. 3686)

when made

1926

Registered Horse Power,

Owners Alliance Fishing Co. Ltd.

Port belonging to Reykjavik.

Nom. Horse Power as per Section 28

118

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

## ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

14 1/2 x 24 1/2 x 40

Length of Stroke

27

Revs. per minute

Dia. of Screw shaft

as per rule 8.345

Material of screw shaft

Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

yes

Is the after end of the liner made water tight

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 a plastic material insoluble in water and non-corrosive

yes

If two

liners are fitted, is the shaft lapped or protected between the liners

yes

Length of stern bush

40

Dia. of Tunnel shaft

as per rule 7.47

Dia. of Crank shaft journals

as per rule 7.93

Dia. of Crank pin

8 3/8

Size of Crank webs

16 x 5

Dia. of thrust shaft under

collars

8 3/8

Dia. of screw

10-6

Pitch of Screw

11-1

No. of Blades

4

State whether moveable

no

Total surface

40 sq ft

No. of Feed pumps

2

Diameter of ditto

2 5/8

Stroke

18

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

2 5/8

Stroke

18

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

Sizes of Pumps

6 1/2 x 4 1/2 x 6

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

2 @ 2 1/2 inch each

In Holds, &c. One - 2" to each of following

Forehold, main fish room, forward slush well, aft slush well.

No. of Bilge Injections

one

sizes

4"

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

yes 2 1/2

Are all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

yes

Are the sluices on Engine room bulkheads always accessible

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

forward suction

How are they protected

Wood casing

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

yes

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

no

worked from

## OILERS, &c.—(Letter for record

S)

Manufacturers of Steel

Fried. Krupp

Essen

Total Heating Surface of Boilers

21085 sq ft

Is Forced Draft fitted

no

No. and Description of Boilers

One

S.E.

Main

Working Pressure

200 lb

Tested by hydraulic pressure to

350 lb

Date of test

8-2-26

No. of Certificate

3586

Can each boiler be worked separately

yes

Area of fire grate in each boiler

61 sq ft

No. and Description of Safety Valves to each boiler

2 spring loaded

Area of each valve

5.930 sq in

Pressure to which they are adjusted

200 lb

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

8"

Mean dia. of boilers

15-0"

Length

11-0"

Material of shell plates

S

Thickness

1 5/16"

Range of tensile strength

29/33 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

D.R.

long. seams

TR.D.B.S.

Diameter of rivet holes in long. seams

1 1/32"

Pitch of rivets

9 1/4"

Lap of plates

width of butt straps

19 5/8"

Percentages of strength of longitudinal joint

86.8

Working pressure of shell by rules

200 lb

Size of manhole in shell

16 x 12

rivets

86.8

plate

85.4

No. and Description of Furnaces in each boiler

3

Dighton

Material

S

Size of compensating ring

4-8 3/8 dia x 1 5/16

Length of plain part

21

Description of longitudinal joint

welded

No. of strengthening rings

3

Thickness of plates

21

bottom

32

Thickness: Sides

3/4"

Back

11/16"

Working pressure of furnace by the rules

209

Combustion chamber plates: Material

S

Thickness: Sides

3/4"

Back

11/16"

Top

11/16"

Bottom

3/4"

Pitch of stays to ditto: Sides

10 x 8

Back

9 1/2 x 8 1/2

Top

10 x 8

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

203

Material of stays

S

Area at smallest part

1 3/4 dia

Area supported by each stay

80.750

Working pressure by rules

224

End plates in steam space: Material

S

Thickness

1 3/16"

Pitch of stays

18 x 21

How are stays secured

DN & W

Working pressure by rules

207

Material of stays

S

Area at smallest part

3 1/4 dia

Area supported by each stay

378.0

Working pressure by rules

213

Material of Front plates at bottom

S

Thickness

15/16"

Material of Lower back plate

S

Thickness

7/8"

Greatest pitch of stays

9 1/2 x 14

Working pressure of plate by rules

218

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/4"

Material of tube plates

S

IS A DONKEY BOILER FITTED?  No  If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two top end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set air, feed & bilge pump valves, Set of spare valves for donkey pumps; main & donkey check valve, safety valve spring, propeller; circulating pump impeller & shaft, 6 condenser tubes, 6 boiler tubes.

The foregoing is a correct description,  
For AMOS & SMITH LTD.

*G. J. Robinson*  
DIRECTOR

Manufacturer.

Dates of Survey while building  
During progress of work in shops: 1925: Oct. 29, Nov 3, 5, 13, 14, 23 Dec 2, 3, 4, 16 1926: Jan 1, 2, 14, 18, 28, 30  
During erection on board vessel: Feb 1, 3, 8, 11, 19 Mar 1, 3, 5, 6, 9, 10, 11.  
Total No. of visits: 28  
Is the approved plan of main boiler forwarded herewith?  Yes  
" " " donkey " " "

Dates of Examination of principal parts—Cylinders 23-11-25 Slides 23-11-25 Covers 23-11-25 Pistons 23-11-25 Rods 3-12-25  
Connecting rods 3-12-25 Crank shaft 16-12-25 Thrust shaft 28-1-26 Tunnel shafts 23-11-25 Screw shaft 16-12-25 Propeller 16-12-25  
Stern tube 16-12-25 Steam pipes tested 3-3-26 Engine and boiler seatings 14-1-26 Engines holding down bolts 1-3-26

Completion of pumping arrangements 11-3-26 Boilers fixed 1-3-26 Engines tried under steam 10-3-26  
Completion of fitting sea connections 14-1-26 Stern tube 14-1-26 Screw shaft and propeller 14-1-26

Main boiler safety valves adjusted 11-3-26 Thickness of adjusting washers 3/8 P & S.

Material of Crank shaft Steel Identification Mark on Do. 207 P.F. Material of Thrust shaft Steel Identification Mark on Do. 207 P.F.  
Material of Tunnel shafts Steel Identification Marks on Do. 200 P.F. Material of Screw shafts Steel Identification Marks on Do. 207 P.F.

Material of Steam Pipes S.D. Copper 4 1/2 dia. 4 SWG ✓ Test pressure 400 lbs per sq. in. ✓

Is an installation fitted for burning oil fuel?  No  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 duplicate of a previous case?  No  If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) The engines & boiler of this vessel have been built under special survey & in accordance with the approved plans & the Rules of this Society. The materials & workmanship are good. The machinery has been satisfactorily fitted on board, tried under working conditions, & found satisfactory. The steam & feed pipes have been tested by hydraulic pressure as required by the Rules. The safety valves have been adjusted under steam & tried for accumulation. The machinery is eligible in my opinion to have the record of + LMC 3, 26, C.L. in the Register Book.

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC 3, 26, C.L.

*P. Fitzgerald*  
29/3/26

P. Fitzgerald  
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 3 : - :  
Special ... £ 29 : 10 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, 9.3 1926  
When received, 12.3 1926

Committee's Minute TUES. 30 MAR 1926

Assigned

+ LMC 3, 26 C.L.

CERTIFICATE WRITTEN.



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Foundation