

# Report of Survey for Repairs, &c., of Engines and Boilers

Received at London Office: 10 FEB 1949

Date of writing Report 30/12/48 When handed in at Local Office 19 Port of AUCKLAND, N.Z.

No. in Reg. Book 76749 Survey held at Auckland Date: First Survey 14/2/46 Last Survey 20/12/46 19  
(No. of Visits 26)

on the Machinery of the ~~Wood~~ Steel Single Screw Steam Trawler "TAIAROA".

Tonnage { Gross 252 Vessel built at AUCKLAND, N.Z. By whom Mason Bros. Eng. Co. Ltd. When 1913 Year. Month.  
Net 88 Engines made at HUTT, N.Z. By whom N.Z. Govt. Railways When " -  
Indicated. 480 Boilers, when made (Main) 1913 (Donkey) --- -  
Horse Power }  
No. of Main Boilers 1SB Owners National Mortgage & Agency Co. of Owners' Address (if not already recorded in Appendix to Register Book.)  
No. of Donkey Boilers --- Managers " - New Zealand, Ltd. Port DUNEDIN, N.Z. Voyage FISHING -  
Steam Pressure in Main Boilers 180lb If Surveyed Afloat or in Dry Dock BOTH - Harb. Bd. Slipway Particulars of Classification (which must be inserted  
in Donkey Boilers --- (State name of Dock.) precisely as in Register Book & Supplements.

Last Report No. --- Port ---

Particulars of Examination and Repairs (if any) SPECIAL SURVEY for LMC.

(Periodical Surveys, when held, must be reported in detail and serialim in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.) 5/1/46 - S.

In damage cases where the Surveyor has not made a special damage report: he is required to state whether he offered his services for this purpose, and why they were declined ---

Was a damage report made by anyone else? If so, by whom? ---

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? Yes.

" " Donkey " " " ---

If this was not done, state for what reasons? ---

And what parts of the Boilers could not thus be thoroughly examined? ---

Also what special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler? ---

State latest date of internal examination of each boiler 12/12/46

Present condition of funnel(s) Good, New.

Did the Surveyor examine the Safety Valves of the Main Boiler? Yes. To what pressure were they afterwards adjusted under steam? 180lb. Govt.

Did the Surveyor examine the Safety Valves of Donkey Boiler? --- To what pressure were they afterwards adjusted under steam? --- -Gauge.

Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? Yes. and of the Donkey Boilers? ---

Did the Surveyor examine the drain plugs of the Main Boilers? --- and of the Donkey Boilers? ---

Did the Surveyor examine all the mountings of the Main Boilers? Yes. and of the Donkey Boilers? ---

Has screw shaft now been drawn and examined? Yes. Is it fitted with continuous liner? Yes. Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ---

Has shaft now been changed? No. If so, state reasons ---

Has the shaft now fitted been previously used? --- Has it a continuous liner? --- Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ---

State date of examination of Screw Shaft 28/11/46. State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft Close Fit.

Engine parts, when referred to by numbers, should be counted from forward.

Is electric light and/or power fitted? Both - Good.

If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? Yes.

Has the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? Yes.

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done COMPLETE:- Examined Propeller,

Screw Shaft-NEW- Stern Bush, Sea Connections & all Fastenings; Condition Good.

Examined Cylinders, Pistons, Slide Valves, Crank & Thrust Shafts, Pumps & Condenser-(Cdsr. Tested)-The

Valves, Cocks, Pipes & Strainers of the Pumping Arrangements; Condition Good. Boiler examined throughout

together with its Steam Pipes, Safety Valves, all Mountings & Fastenings-(Steam Pipes Steel & Feed

Pipes Copper) tested per Rules. Boiler afterwards lagged and tested under Steam and Safety Valves set

180lb. working pressure. Electrical Equipment including Steam Dynamo Engine examined throughout, and

tested per Rules to satisfaction. All Auxiliary Machinery-Pumps, Steering & Windlass Engines, Oil Fuel

Pumps, all Valves, Tanks, Pipes, Deck Control Gear, examined throughout and seen in good New condition.

afterwards tested per rules to satisfaction. Fire Smothering-(Chemical) Installation satisfactory. Owners,

RECOMMENDED:- This Machinery be given favourable consideration for LMC. 12/46. Good New Condition.

General Observations, Opinion, and Recommendation:— This Machinery is now in good condition, well secured

(State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9, 11, B.&M.S. 9, 11, L.M.C. 9, 11, or CS 3, 34,

in place, and conforms to Rule Requirements and is in my opinion eligible to be classed with this

Society with the Record of LMC. 12-46. and notation of Screw Shaft seen 12/46. CL. made in the Register

Book, subject to the approval and acceptance of this Machinery by the Committee.

Certificate Issued: 17/1/47.

Survey Fee (per Section 29) £ : : Fees applied for, 19

Chargeable with Issue of Certificate

Special Damage or Repair Fee (if any) £ : : Received by me, 19

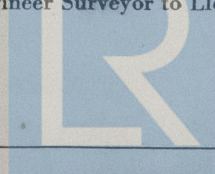
(per Section 29.)

Travelling expenses (if chargeable) £ : :

Committee's Minute FRI. 18 MAR 1949

Assigned See minute on file rpl.

*Richard Lunn*  
Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register  
Foundation

005146-008157-0077 1/2



Steam Trawler "TAIAROA".MAIN ENGINES and BOILER PARTICULARS SHEET:MAIN ENGINES. Inverted Triple Expansion Surface Condensing.Diameter of Cylinders:  $12\frac{1}{2}$ " , 21" , 35"

Stroke: 26" ; Indicated Horsepower: 480

When &amp; where constructed : 1943 , Hutt Workshops.

Makers' Name : N.Z. Railways .

MAIN BOILER :

Description : Scotch Marine Type.

Maker's Name: Adamson . Made: 1943.

Working Pressure : 180 lbs/sq. in.

Internal Diameter: 13'-6"

Mean Length: 10' -6"

Number of furnaces: 3 plain .

Diameter of furnaces: 3' -4 $\frac{1}{2}$ "Internal diameter plain tubes: 3 $\frac{1}{4}$ "

Heating Surface: 1600 sq. ft.

AUXILIARY MACHINERY PARTICULARS SHEET:ENGINE ROOM:One Sunderland Forge Single cylinder vertical engine No. G563 direct coupled at a 110 volt 136.5 amp. (15 K.W.) Sunderland Forge Generator.One Drysdale Single cylinder vertical engine No. 47905 direct coupled to a Drysdale centrifugal circulating pump.One vertical Carruthers duplex auxiliary feed pump No. 9928.

One horizontal " " general service pump.

OIL FUEL PLANT (STOKEHOLD): Two horizontal Tangye duplex pumps Nos. 31997 & 31998 - Bore 3" and 1 $\frac{1}{2}$ " - Stroke 3" .One horizontal Worthington duplex transfer pump - Bore 5 $\frac{3}{8}$ " & 2 $\frac{1}{2}$ " - Stroke 5" .DECK :

One 2 cylinder Stevenson &amp; Cook Engineering Coy. steam trawl winch .

One 2 cylinder Emerson & Walker steam windlass No. 64103.

One 2 cylinder Donkin Patent steam steering engine .

One 4 ton Stern ammonia compressor vee belt driven by a 10 H.P. electric motor.

Installed in space on port side under forecastle head .

Signed:- W. Richard Smith.

Engineer Surveyor to Lloyd's Register of Shipping.