

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

25 FEB 1943

Received at London Office

Date of writing Report 19... When handed in at Local Office 19... Port of HULL

No. in Survey held at Reg. Book... Date, First Survey 18. 9. 42 Last Survey 6. 2. 1943
(Number of Visits 24)

on the H.M. TRAWLER GRUINARD Tons { Gross 453
Net 146

Built at SUNDERLAND By whom built J. CROWN Yard No. 205 When built 1943

Engines made at HULL By whom made Chas. D. Holmes & Co. Engine No. 1644 When made 1943

Boilers made at W. HARTLEPOOL By whom made Central Marine Eng. Wks. Boiler No. R.356 When made

Registered Horse Power... Owners THE ADMIRALTY Port belonging to

Nom. Horse Power as per Rule 156 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which vessel is intended

ENGINES, &c.—Description of Engines Triple Expansion Contract Revs. per minute 160

Dia. of Cylinders 13 1/2" x 23" 38" Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 7.5 Crank pin dia. 7 3/8" Mid. length breadth — Thickness parallel to axis 4 13/16"
as fitted 7 3/8" Crank webs — shrunk Mid. length thickness — Thickness around eye-hole 3 15/16"

Intermediate Shafts, diameter as per Rule... Thrust shaft, diameter at collars as per Rule...
as fitted... as fitted

Tube Shafts, diameter as per Rule... Screw Shaft, diameter as per Rule...
as fitted... as fitted Is the { tube } shaft fitted with a continuous liner { screw }

Bronze Liners, thickness in way of bushes as per Rule... Thickness between bushes as per Rule... Is the after end of the liner made watertight in the propeller boss...
as fitted... as fitted If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

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

If two liners are fitted, is the shaft lapped or protected between the liners... Is an approved Oil Gland or other appliance fitted at the after end of the tube at... If so, state type... Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia... Pitch... No. of Blades... Material... whether Moveable... Total Developed Surface... sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work Yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work Yes

Feed Pumps { No. and size... Pumps connected to the { No. and size...
How driven... Main Bilge Line { How driven...

Ballast Pumps, No. and size... Lubricating Oil Pumps, including Spare Pump, No. and size...

Are two independent means arranged for circulating water through the Oil Cooler... Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps:—In Engine and Boiler Room...
In Pump Room... In Holds, &c...

Main Water Circulating Pump Direct Bilge Suctions, No. and size... Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size...
Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

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

Are all Sea Connections fitted direct on the skin of the ship... Are they fitted with Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates... Are the Overboard Discharges above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel... Are the Blow Off Cocks fitted with a spigot and brass covering plate

What Pipes pass through the bunkers... How are they protected

What pipes pass through the deep tanks... Have they been tested as per Rule

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

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... Is the Shaft Tunnel watertight... Is it fitted with a watertight door... worked from...

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

Which Boilers are fitted with Forced Draft... Which Boilers are fitted with Superheaters

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 ?

Can the donkey boiler 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 Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

The foregoing is a correct description.
FOR CHARLES D. HOLMES & CO., LTD.

W.R. Evans

Manufacturer.



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Lloyd's Register Foundation

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Dates of Survey while building:

 During progress of work in shops -- { 1942 Sept. 18.25. Oct. 1, 2, 5, 6, 8, 9, 13, 16, 19, 24, 30. Nov. 5, 6, 14, 19, 23, 30. Dec. 1, 7.

 1943 Jan. 20. Feb. 2, 6.

 During erection on board vessel -- {

 Total No. of visits 24.

Dates of Examination of principal parts:

 Cylinders *supplied by Walker Bros and taken at WIGAN.* Slides 30/10/42 Covers *as Cylinders.*

 Pistons 30/10/42 Piston Rods 9/10/42 Connecting rods 9/10/42

 Crank shaft 5/10/42 Thrust shaft Intermediate shafts

 Tube shaft Screw shaft Propeller

 Stern tube Engine and boiler seatings Engines 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

 Crank shaft material *F. light steel* Identification Mark *Emp 998 F.W. 30/7/42* Journal *999 F.W. 9/7/42* Thrust shaft material Identification Mark

 Intermediate shafts, material Identification Marks Tube shaft, material Identification Mark

 Screw shaft, material Identification Mark 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 duplicate of a previous case. If so, state name of vessel.

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

 The Machinery of the Vessel has been constructed in accordance with the approved Admiralty plans, the Specifications, and the Society's Rules of tested material supplied by firms approved by the Society. The Workmanship and materials are good.

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|------------------------------|---|----|---|-------------------|
| The amount of Entry Fee | £ | : | : | When applied for, |
| Special (Part) | £ | 45 | - | 25 FEB 1943 |
| Donkey Boiler Fee | £ | : | : | When received, |
| Travelling Expenses (if any) | £ | : | : | 19 |

J. P. [Signature]
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____
 Assigned *See Std. 28 336 39*



Certificate to be sent to...
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)