

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 3 JUN 1942
When handed in at Local Office 30.5.42 Port of Glasgow
Survey held at Glasgow Date, First Survey 20.6.41 Last Survey 15.5.1942
(Number of Visits 32)
By whom built Glasgow Yard No. 28
Made at Glasgow By whom made Duncan Stewart & Co Ltd Engine No. 147
When made 1942
Boiler No. When made
Horse Power Owners Port belonging to
Power as per Rule 510 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
which Vessel is intended

ES, & Co. - Description of Engines Triple expansion
Cylinders 2 1/2 - 39 - 70 Length of Stroke 48 No. of Cylinders 3 Revs. per minute
Diameter of journals as per Rule 1 1/4 Crank pin dia. 1 3/4 Crank webs Mid. length breadth 22 No. of Cranks 3
Mid. length thickness 9 Shrink Thickness parallel to axis 9
Thickness around eye-hole 6 3/8
Thrust shaft, diameter at collars as per Rule
Screw Shaft, diameter as per Rule
Is the tube shaft fitted with a continuous liner
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
If the liner is in more than one length are the junctions made by fusion through the whole thickness of 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 so, state type
Is an approved Oil Gland or other appliance fitted at the after end of the tube
Length of Bearing in Stern Bush next to and supporting propeller
Pitch No. of Blades Material whether Moveable Total Developed Surface sq. feet
Main Engines, No. 2 Diameter 4 Stroke 27 Can one be overhauled while the other is at work
Can one be overhauled while the other is at work yes
Pumps connected to the Main Bilge Line No. and size How driven
Lubricating Oil Pumps, including Spare Pump, No. and size
Suctions, connected to both Main Bilge Pumps and Auxiliary
In Holds, &c.

Circulating Pump Direct Bilge Suctions, No. and size
Independent Power Pump Direct Suctions to the Engine Room Bilges,
Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
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
Connections fitted direct on the skin of the ship
Are they fitted with Valves or Cocks
Suctions 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
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
How are they protected
Suctions through the bunkers
Have they been tested as per Rule
Suctions through the deep tanks
Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
Prevention 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
another
Is the Shaft Tunnel watertight
Is it fitted with a watertight door
worked from

BOILERS, &c. - (Letter for record) Total Heating Surface of Boilers
Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters
Description of Boilers Working Pressure
REPORT ON MAIN BOILERS NOW FORWARDED?
DONKEY BOILER FITTED?
If so, is a report now forwarded?
boiler be used for domestic purposes only
Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
(If not state date of approval)
General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.
as required by the Rules been supplied only as per list attached
Additional spare gear supplied

Proceeding is a correct description.
DUNCAN STEWART & CO. LTD.
Frank B. Hindley
Director
Manufacturer.
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1941 June: 20 July: 9-23-31 Aug: 22 Sep: 2-14-17 Oct: 8-10-31 Nov: 7-13-20 Dec: 8-17-18-29
During progress of work in shops - -
1942 Jan: 6-14-23 Feb: 3-16-26 Mar: 3-11-20 Apr: 2-15-24 May: 4-15
During erection on board vessel - - -
Total No. of visits 32

Dates of Examination of principal parts—Cylinders 6-1-42 Slides 26-2-42 Covers 26-2-42
Pistons 26-2-42 Piston Rods 11-3-42 Connecting rods 3-3-42
Crank shaft 16-2-42 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 9. steel Identification Mark N^o 10799 Thrust shaft material Identification Mark
Intermediate shafts, material Identification Marks 16-2-42 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 yes If so, state name of vessel (in store) Elb Rpt. N^o 65360
General Remarks (State quality of workmanship, opinions as to class, &c.)

* In addition, all the original identification marks are stamped on each forging as per forging report.
The materials and workmanship are good.
The engines have been constructed under special survey. On satisfactory completion of fitting in the vessel and of trials they will, in my opinion be eligible for classification and a record of + LMC (with date).
The engines are being sent to Dalmeir for storage.

Job
30/5/42

The amount of Entry Fee ... £ 6 : :
Special + SPECIFICATION FEE ... £ 50 : 5 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 2 JUN 1942
When received, 19

L. H. Davis.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 2 JUN 1942 GLASGOW 13 JUN 1942

Assigned Superceded for Completion