

No. 113

Received at London Office

5 NOV 1949

ES, &c. —Type of Engines. Diesel engine 2 or 4 stroke cycle. 2 ✓ Single or double acting single
 ure in cylinders 53 kg/cm² Diameter of cylinders. 650 mm ✓ Length of stroke. 1200 mm ✓ No. of cylinders. 10 ✓ No. of cranks. 10
 l Pressure. 6,3 kg/cm² Ahead Firing Order in Cylinders. 1,6,8,4,2,10,5,3,7,9 Span of bearings, adjacent to the crank, measured
 e to inner edge. 380 mm Is there a bearing between each crank? yes ✓ Revolutions per minute 133

260 mm Weight 4220 kg Moment of inertia of flywheel (16 lbs. in² or Kg.cm.²) 13,970 kg/m² Means of ignition ^{airless} spraying Kind of fuel used gas oil
 forged dia. of journals as per Rule. Crank pin dia. 460 mm Crank webs Mid. length breadth 700 mm Thickness parallel to axis 285 mm
 cast dia. of journals as fitted 460 mm Mid. length thickness 285 mm shrunk Thickness around eye hole -

as per Rule diameter as fitted Intermediate Shafts, diameter as per Rule as fitted 374.66 mm Thrust Shaft, diameter at collars as per Rule as fitted 460 mm

as per Rule 15.175 Screw Shaft, diameter as per Rule 412.77 Is the tube shaft fitted with a continuous liner 412.77

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
as fitted..... *as fitted*.....
 yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length

is 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-
If two liners are fitted, is the shaft lapped or protected between the liners one liner Is an approved **Oil Gland** or other appliance fitted at the after
no If so, state type. - Length of bearing in **Stern Bush** next to and supporting propeller 1658 mm

5500 mm Pitch. 3320 mm No. of blades 4 Material manganese bronze whether moveable no Total developed surface 9.4 m² sq. feet
Inertia of propeller (in lbs.in² or Kg.cm.²) 39.410, -kgm² Kind of damper, if fitted -
Inlet Engine compressed

Is a governor or other arrangement fitted to prevent racing of the engine when declutched. yes Means of
 air
 Thickness of cylinder liners. 55 mm Are the cylinders fitted with safety valves. yes Are the exhaust pipes and silencers water cooled
 If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned

ne. - Cooling Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel. yes

arked from the Main Engines, No. none Diameter. - Stroke. - 300 Can one be overhauled while the other is at work.

(No. and size. 1 bilge and ballast pump 250x300mm, 1 service pump 9"x6"x10" *also transfer*

How driven steam driven steam driven according to plan

Water led to the bilges no If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

No. and size 1x250x300x300 Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2 cross head pumps 6m³/h
2x192m³/h
 dent means arranged for circulating water through the Oil Cooler..... yes..... Suctions, connected to both main bilge pumps and auxiliary

and size:—In machinery spaces..... 5x5/2" 1x 5" In pump room..... -

Lower Pump Direct Suctions to the engine room bilges, No. and size..... 1x 250 mm

suction pipes in holds and tunnel well fitted with strum-boxes.....yes.....Are the bilge suction in the machinery spaces led from easily accessible points, placed above the level of the working floor, with straight tail pipes to the bilges.....yes.....

Are they fitted with valves or cocks..... valves Are they fixed
on the ship's side to be seen without lifting the platform plates..... yes Are the overboard discharges above or below the deep water line..... below
ed 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

through the bunkers.....none.....How are they protected.....-

through the deep tanks.....none.....Have they been tested as per Rule.....-

ks, valves and mumps in connection with the machinery and all boiler mountings accessible at all times.....yes

... 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 compartment to another... yes Is the shaft tunnel watertight... no shaft tunnel Is it fitted with a watertight door... - worked from... -

What means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork..... -

Compressors, No. - No. of stages..... - diameters..... - stroke..... - driven by..... -

Compressors, No. 3 No. of stages 2 diameters 150/135 mm stroke 160 mm driven by Diesel

Air Compressors, No. 1 No. of stages 2 diameters 80/30mm stroke 60 mm driven by Diesel eng.
made for first charging the air receivers the small auxiliary air compressor can be started by hand
Pumps, No 1 diameters 1620 mm stroke 700 mm attached to

as per Rule..... No. 3
as fitted..... 85 mm..... Position engine room stbd. side
y engines been constructed under special survey yes..... Is a report sent herewith yes



AIR RECEIVERS:—Have they been made under survey... yes State No. of report or certificate.....
Is each receiver, which can be isolated, fitted with a safety valve as per Rule... yes
Can the internal surfaces of the receivers be examined and cleaned... yes Is a drain fitted at the lowest part of each receiver.....
Injection Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
Seamless, welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -
Starting Air Receivers, No. 2 Total cubic capacity 13.5m³ + 5.5m³ Internal diameter 1615mm, 1654mm thickness 30 mm
Seamless, welded or riveted longitudinal joint riveted Material SM steel Range of tensile strength - Working pressure -

IS A DONKEY BOILER FITTED 2 If so, is a report now forwarded.....
Is the donkey boiler intended to be used for domestic purposes only... yes
PLANS. Are approved plans forwarded herewith for shafting... Glasgow letter 16/8/49 Receivers 10/5 and 16/8/49 Separate Glasgow letters
(If not, state date of approval) forwarded
Donkey boilers previously fitted General pumping arrangements 28/10/49 Pumping arrangements in machinery space Forwarded
Oil fuel burning arrangements.....
Have Torsional Vibration characteristics been approved... yes Date of approval 16/8/49

SPARE GEAR.

Has the spare gear required by the Rules been supplied... yes
State the principal additional spare gear supplied.....

The foregoing is a correct description.

Manufacturer.

Dates
of Survey
while
building

During progress of
work in shops - -
During erection on
board vessel - -
Total No. of visits.

See Report 9

Dates of examination of principal parts—Cylinders..... Covers..... Pistons..... Rods..... Connecting
Crank shaft..... Flywheel shaft..... Thrust shaft..... Intermediate shafts..... Tube shafts.....
Screw shaft..... Propeller..... Stern tube..... Engine seatings..... Engine holding down bolts.....
Completion of fitting sea connections..... Completion of pumping arrangements..... Engines tried under working conditions.....
Crank shaft, material..... Identification mark..... Flywheel shaft, material..... Identification mark.....
Thrust shaft, material..... Identification mark..... Intermediate shafts, material..... Identification mark.....
Tube shaft, material..... Identification mark..... Screw shaft, material..... Identification mark.....
Identification marks on air receivers.....

Welded receivers, state Makers' Name.....
Is the flash point of the oil to be used over 150°F... yes
Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with... yes
Description of fire extinguishing apparatus fitted chemical, water and sand
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... no If so, state name of vessel.....

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

The quality of workmanship is good
has been installed under survey, and
is eligible in my opinion for class as
contemplated M.B.S 9:49

The amount of Entry Fee ... £ : :
Special ... £ : :
Donkey Boiler Fee... £ : :
Travelling Expenses (if any) £ : :
When applied for 19
When received 19

(Committee's Minute)

Assigned

See minute on R/S

Engineer Surveyor to Lloyd's Register

Lloyd's Register
Foundation