

writing Report 30-9-1949 When handed in at Local Office 19 Port of Groningen
Survey held at Harlingen Date, First Survey 5-2-1948 Last Survey 16-9-1949
ok. Number of Visits 23

Glasgow
 Colchester
 By whom built Messrs. Brown
 By whom made Davey Paxman & Co
 Yard No. *unkn* When built *during war 1940/45*
 Engine No. *SB 71279* When made *"*
PS 71280

Horse Power as per Rule..... Is Refrigerating Machinery fitted for cargo purposes..... no Is Electric Light fitted..... yes
 for which vessel is intended..... coasting

Indicated Pressure..... 6.5 kg/cm^2 Diameter of cylinders..... $7''$ ✓ Length of stroke..... $7\frac{3}{4}''$ ✓ No. of cylinders..... 2×6 ✓ No. of cranks..... 6 ✓
f bearings, adjacent to the crank, measured from inner edge to inner edge..... $6\frac{9}{16}''$ ✓ Is there a bearing between..... $14\frac{1}{2}''$ ✓

Revolutions per minute 1000 Flywheel dia. 18 1/2" Weight ± 60 kg Means of ignition Compress Kind of fuel used Diesel oil

Semi built dia. of journals as per Rule..... $4\frac{1}{2}$ " ✓ Crank pin dia. $4\frac{1}{8}$ " ✓ Crank webs
 All built as fitted..... Thickness parallel to axis.....
 Mid. length breadth..... $3\frac{1}{2}$ " ✓
 Mid. length thickness..... $3\frac{1}{2}$ " ✓ shank Thickness around eyehole.....
 Red gear
 Ball bearings

Shaft, diameter *as fitted* *as per Rule*
 Intermediate Shafts, diameter *as fitted* *as per Rule*
 Thrust Shaft, diameter at collars *as fitted* *as per Rule*
 Shaft, diameter *as fitted* *as per Rule*
 Screw Shaft, diameter *as fitted* *as per Rule*

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

.....If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner.....
 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-

..... 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
tube shaft no If so, state type..... Length of bearing in Stern Bush 15"

er, dia 1000 mm Pitch 675 mm No. of blades 3 Material bronze whether moveable solid Total developed surface 15 sq. feet

Is a governor or other arrangement fitted to prevent racing of the engine when declutched. yes Means of
Thickens of cylinder liners. 3/16" Are the cylinders fitted with safety valves. no Are the exhaust pipes and silencers water cooled

d with non-conducting material. yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned the engine. funnels Cooling Water Pumps, No. 1 each (+ 1 spare of 60 m³/h and 1 spare of 30 m³/h; see bullet p. 1) Is the sea suction provided with an efficient strainer which can be cleared within the vessel. yes

umps worked from the Main Engines, No. — Diameter — Stroke — Can one be overhauled while the other is at work. —
connected to the Main Bilge Line { No. and size 1 x $\frac{1}{2}$ ± 60 m³/h 1 x $\frac{1}{2}$ ± 30 m³/h

connected to the Main Bilge Line } How driven..... el: motor..... el: motor.....
 pumping 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

Pumps, No. and size. 1x60^{m3}/h, 1x30^{m3}/h Power Driven Lubricating Oil Pumps, including spare pump. No. and size 1 each m.e. +

independent means arranged for circulating water through the Oil Cooler *yes* Suctions, connected to both main bilge pumps and auxiliary pumps, No. and size:—In machinery spaces *2 x ϕ 3" + 1 x ϕ 2 1/2" steering gear 2 x ϕ 4 1/2"*

2 x $\phi 3"$ (1 foreward, 1 aft) + handpump $\phi 2"$ (crew space)

vent Power Pump Direct Suctions to the engine room bilges, No. and size..... *2 x ϕ 3"*..... *chain locker*

the bilge suction pipes in holds and tunnel well fitted with strum-boxes..... *yes*..... Are the bilge suction in the machinery spaces led from easily

Are they fitted with valves or cocks..... *yes* *valves*

by high 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. above
each fitted with a discharge valve always accessible on the plating of the vessel. yes Are the blow-off cocks fitted with yes

Are the blow off cocks fitted with a spigot and brass covering plate. yes

How are they protected. none

Have they been tested as per Rule..... —

Are the pipes, cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times..... yes

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 from one compartment to another. yes Is the shaft tunnel watertight mach: aft it fitted with a watertight door — worked from —

Compressors, No. _____ No. of stages _____ diameters _____

Air Compressors, No. — No. of stages — diameters — stroke — driven by —

Auxiliary Air Compressors, No. one for charging turbo receiver stroke — driven by —

Auxiliary Air Compressors, No. one No. of stages for charging up to noon receiver
 diameters _____ stroke _____ belt driven by el. motor
 provision is made for first charging the air receivers Sixard engine can be started by hand

Engines crank shafts, diameter _____ stroke _____ driven by _____
 as per Rule _____ No. 4 cyl Paxman Ricardo ; 3 cyl Bistard

auxiliary engines been constructed under special survey..... no Is a report sent herewith..... no

4.^B

AIR RECEIVERS:—Have they been made under survey no (engines el. start) 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..... yes
Injection Air Receivers, No..... Cubic capacity of each..... Internal diameter..... thickness.....
Seamless, lap welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....
Typhoon
Starting Air Receivers, No..... one Total cubic capacity..... 120 litres Internal diameter..... 300 mm thickness..... 10 mm
Seamless, lap welded or riveted longitudinal joint..... ends e.w. Material..... SM steel Range of tensile strength..... tested at 60 at Working pressure.....
[receiver originally tested by Dutch Authorities for WP - 60 at]

IS A DONKEY BOILER FITTED..... no If so, is a report now forwarded.....
Is the donkey boiler intended to be used for domestic purposes only.....
PLANS. Are approved plans forwarded herewith for shafting..... yes Receivers..... Separate fuel tank.....
(If not, state date of approval)
Donkey boilers..... General pumping arrangements..... 15-4-48 Pumping arrangements in machinery space..... yes
Oil fuel burning arrangements.....

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,

WILCOX
Manufacturer.

Dates of Survey while building on board
During progress of work in shops..... 1948 : 5, 11, 18-2; 21-7; 3, 9, 13-8; 8, 29-9; 19, 20-10-48
During erection on board vessel..... 16-11; 20, 21, 27-12; 1949: 5, 18-1; 20-5; 26-8; 7, 9, 13, 20-10-49
Total No. of visits..... 23
Dates of examination of principal parts—Cylinders..... 8/29-9-48 Covers..... 8/29-9-48 Pistons..... 8/29-9-48 Rods..... Connecting rods.....
Crank shaft..... 8-9-48 Flywheel shaft..... Thrust shaft..... 27-12-48 Intermediate shafts..... Tube shaft.....
Screw shaft..... 18-2-48 Propeller..... 18-2-48 Stern tube..... Engine seatings..... 3-8-48 Engine holding down bolts..... 16-9-49
Completion of fitting sea connections..... 8-9-48 Completion of pumping arrangements..... 16-9-49 Engines tried under working conditions..... 16-9-49
Crank shaft, material..... Identification mark..... Flywheel shaft, material..... Identification mark.....
Thrust shaft, material..... Identification mark..... Intermediate shafts, material..... Identification marks.....
Tube shaft, material..... Identification mark..... Screw shaft, material..... Identification mark.....
Identification marks on air receivers.....

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..... 3 x 9 litres
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo..... no 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..... "Hientje Mensinga"

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

The amount of Entry Fee ... £ please see Special Survey Report
Special ... £
Donkey Boiler Fee... £
Travelling Expenses (if any) £
Committee's Minute
Assigned

When applied for..... 19
When received..... 19

