

REPORT ON OIL ENGINE MACHINERY.

No. 19694

Received at London Office

1st May 1936 When handed in at Local Office 1.5.1936 Port of Grimsby

Survey held at Lincoln Date, First Survey 3rd October 1935 Last Survey 30th April 1936

Book. Single on the Twin Triple Quadruple Screw vessel Sepia

Tons Gross Net

built at Newcastle By whom built Swan Hunter & W. Richardson & Co. Ltd. Yard No. 1519 When built

Engines made at Lincoln By whom made Kinston & Hornsby Ltd. Engine No. 78297 When made 1936

Boilers made at By whom made Boiler No. When made

Indicated Horse Power 60 Owners Port belonging to

Indicated Horse Power as per Rule 18.6 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

made for which vessel is intended [One Engine - Type 3 VCRZ]

ENGINES, &c. Type of Engines Airless injection, cold starting 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 400 lbs. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 No. of cranks 3

Indicated Pressure 81.5 lbs. Flywheel dia. 3' 4" Weight 19 cwt. Is there a bearing between each crank yes

Revolutions per minute 450 Means of ignition Compression Kind of fuel used Crude oil

Crank Shaft, dia. of journals as approved 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis

as fitted 6" Mid. length thickness 2 1/2" shrunk Thickness around eyehole

Wheel Shaft, diameter as approved 6" Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as per Rule

as fitted 6" as fitted as fitted

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

as fitted as fitted as fitted

Copper 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

as fitted as fitted as fitted

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

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

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

ft. If so, state type Length of Bearing in Stern Bush next to and supporting propeller

9c. Propeller, dia. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet

Method of reversing Engines Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication

used Thickness of cylinder liners 3/4" Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with

conducting material water If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

oling Water Pumps, No. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel

ge Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

umps connected to the Main Bilge Line No. and Size How driven

the cooling water led to the bilges If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

ngements

last Pumps, No. and size Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size one geared

two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

nps, No. and size:—In Machinery Spaces In Pump Room

Holds, &c.

ependent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces

from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

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

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

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

at pipes pass through the bunkers How are they protected

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

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

he 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

partment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

in Air Compressors, No. No. of stages Diameters Stroke Driven by

iliary Air Compressors, No. No. of stages Diameters Stroke Driven by

all Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by

venting Air Pumps, No. Diameter Stroke Driven by

iliary Engines crank shafts, diameter as per Rule No. Position

as fitted as fitted as fitted

010012-010023-0232



**AIR RECEIVERS:**—Is each receiver, which can be isolated, fitted with a safety valve as per Rule ✓

Can the internal surfaces of the receivers be examined and cleaned ✓

Is a drain fitted at the lowest part of each receiver ✓

**High Pressure Air Receivers, No.** ✓

Cubic capacity of each ✓

Internal diameter ✓

thickness ✓

Seamless, lap welded or riveted longitudinal joint ✓

Material ✓

Range of tensile strength ✓

Working pressure by Rules ✓

Actual ✓

**Starting Air Receivers, No.** ✓

Total cubic capacity ✓

Internal diameter ✓

thickness ✓

Seamless, lap welded or riveted longitudinal joint ✓

Material ✓

Range of tensile strength ✓

Working pressure by Rules ✓

Actual ✓

**IS A DONKEY BOILER FITTED?** ✓

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 (If not, state date of approval) ✓

7.9.31.

Receivers ✓

Separate Fuel Tanks ✓

Donkey Boilers ✓

General Pumping Arrangements ✓

Pumping Arrangements in Machinery Space ✓

Oil Fuel Burning Arrangements ✓

**SPARE GEAR.**

Has the spare gear required by the Rules been supplied ✓

yes ✓

State the principal additional spare gear supplied ✓

*Juston & Hornsby, Limited,*

The foregoing is a correct description,

*J. C. Coyne*

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1935 Oct 3. 17. 24. 28. 31. Nov. 7. 11. 19. 28. 1936 Jan 8. Feb 13. 24. 27. Mar. 2. 12. 16. 19. 23. 26. 30. Apr. 2. 6. 16. 23. 27. }  
{ During erection on board vessel - - - }  
Total No. of visits 26

Dates of Examination of principal parts—Cylinders 27. 2. 36. Covers 24. 2. 36. Pistons 13. 2. 36. Rods ✓ Connecting rods 28. 11. 3

Crank shaft 8. 1. 36. Flywheel shaft 8. 1. 36. Thrust shaft ✓ Intermediate shafts ✓ Tube shaft ✓

Screw shaft ✓ Propeller ✓ Stern tube ✓ Engine seatings ✓ Engines holding down bolts ✓

Completion of fitting sea connections ✓ Completion of pumping arrangements ✓ Engines tried under working conditions 2. 4. 36

Crank shaft, Material S.M. Steel Identification Mark No. 3229 C. Flywheel shaft, Material S.M. Steel Identification Mark No. 3229 C.

Thrust shaft, Material ✓ Identification Mark ✓ Intermediate shafts, Material ✓ Identification Marks ✓

Tube shaft, Material ✓ Identification Mark ✓ Screw shaft, Material ✓ Identification Mark ✓

Is the flash point of the oil to be used over 150° F. ✓

Have the requirements of the Rules for oil fuel pipes and tank fittings 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 ✓

Grimby report no. 18653 "Sp" Inc.

Is this machinery duplicate of a previous case Yes If so, state name of vessel

Same type, now 3 instead of 5 cylinders

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

The workmanship & materials are good

The engine has been built under Special Survey in accordance with the Rules and Approved plans.

Running trials were carried out at the Makers' Works under Brake load with satisfactory results.

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

Request form attached Gms. rpt. no. 19687

0/2270/P/V.5651 - 36/IV. 2.

The amount of Entry Fee .. £

Special ... .. £

Donkey Boiler Fee ... .. £

Travelling Expenses (if any) £

When applied for,

19.

When received,

19.

Committee's Minute

Assigned

FRI. 30 OCT 1936

See NWC 76 94.319

*H. L. Pilditch*

Engineer Surveyor to Lloyd's Register of Shipping.



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