

B. REPORT ON OIL ENGINE MACHINERY.

No. 118523

Report 14 July 1949 When handed in at Local Office 15 July 1949 Port of London
Survey held at Hewbury Berks. Date, First Survey 1 Feb 1949 Last Survey 18.6.1949
Number of Visits FIVE

Single on the Twin Triple Quadruple } Screw vessel. T.D.S.
By whom built Hewbury Berks. Yard No. 3 When built 1949
By whom made Hewbury Diesel Eng Co. Ltd Engine No. 830 When made 1949
Boiler No. 300 When made 1949
Owners 93 Port belonging to 93
Is Refrigerating Machinery fitted for cargo purposes 93 Is Electric Light fitted 93

&c. — Type of Engines 2 S.C.S.A. (Inj F) 2 or 4 stroke cycle 2 Single or double acting Single
in cylinders 700 lbs Diameter of cylinders 240 Length of stroke 345 No. of cylinders 6 No. of cranks 6
Pressure 80 lbs Ahead Firing Order in Cylinders 1 5 3 4 2 6 Span of bearings, adjacent to the crank, measured inner edge 321
Weight 465 lbs Moment of inertia of flywheel (16lbs. in² or Kg.cm.²) 321 Is there a bearing between each crank Yes Revolutions per minute 330
Means of ignition Compression Kind of fuel used Pool Anglo

dia. of journals as per Rule 150 as fitted 150 Crank pin dia. 150 Crank webs Mid. length breadth 200 Thickness parallel to axis 83 shrunk
Mid. length thickness 83 Thickness around eye-hole 6
Intermediate Shafts, diameter as per Rule 6 as fitted 6 Thrust Shaft, diameter at collars as per Rule 6 as fitted 6
Screw Shaft, diameter as per Rule 6 as fitted 6 Is the { tube screw } shaft fitted with a continuous liner { }
Thickness in way of bushes as per Rule 6 as fitted 6 Thickness between bushes as per Rule 6 as fitted 6 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 Yes
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-
two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after
If so, state type Oil Gland Length of bearing in Stern Bush next to and supporting propeller 6
Pitch 6 No. of blades 6 Material 6 whether moveable 6 Total developed surface 6 sq. feet
of propeller (16lbs. in² or Kg.cm.²) 6 Kind of damper, if fitted 6

Engines Air Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of
Thickness of cylinder liners 32 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled
conducting material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned

Cooling Water Pumps, No. ONE Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
led from the Main Engines, No. ONE Diameter 125 Stroke 55 Can one be overhauled while the other is at work Yes
to the Main Bilge Line { No. and size ONE How driven ONE }
led to the bilges Yes If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

Power Driven Lubricating Oil Pumps, including spare pump, No. and size ONE 9 G.P.M.
means arranged for circulating water through the Oil Cooler ONE Suctions, connected to both main bilge pumps and auxiliary
nd size:—In machinery spaces ONE In pump room ONE

er Pump Direct Suctions to the engine room bilges, No. and size ONE
tion pipes in holds and tunnel well fitted with strum-boxes Yes Are the bilge suction in the machinery spaces led from easily
s, placed above the level of the working floor, with straight tail pipes to the bilges Yes
tions fitted direct on the skin of the Ship Yes Are they fitted with valves or cocks Yes Are they fixed
to the ship's side to be seen without lifting the platform plates Yes Are the overboard discharges above or below the deep water line Yes
d 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 Yes How are they protected Yes
through the deep tanks Yes Have they been tested as per Rule Yes

s, valves and pumps in connection with the machinery and all boiler mountings accessible at all times Yes
nt 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
ve compartment to another Yes Is the shaft tunnel watertight Yes Is it fitted with a watertight door Yes worked from Yes
what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork Yes

essors, No. ONE No. of stages ONE diameters 110 stroke 80 driven by Main Engine
mpressors, No. ONE No. of stages ONE diameters 110 stroke 80 driven by Main Engine
Air Compressors, No. ONE No. of stages ONE diameters 110 stroke 80 driven by Main Engine
made for first charging the air receivers ONE
umps, No. ONE Double acting diameter 536 stroke 300 driven by Crank
crank shafts, diameter as per Rule 536 as fitted 536 No. ONE Position ONE
engines been constructed under special survey Yes Is a report sent herewith Yes

AIR RECEIVERS: - Have they been made under survey *Yes (B.C.)* State No. of report or certificate

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

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 26 cu ft Internal diameter 19" thickness 1/2"

Seamless, welded or riveted longitudinal joint Riveted Material Steel Range of tensile strength 28/32 Working pressure

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 Receivers Separ

Donkey boilers General pumping arrangements Pumping arrangements in machinery space

Oil fuel burning arrangements

Have Torsional Vibration characteristics been approved *Yes (B.C.)* Date of approval

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 & on behalf of THE NEWBURY DIESEL CO. LTD.

Dates of Survey while building During progress of work in shops - 1949. FEB 1. MAR 27. 18. MAY 18

During erection on board vessel - Total No. of visits 5 (In shops)

Dates of examination of principal parts - Cylinders 8/3/49 Covers 28. 4. 49 Pistons Rods Connect

Crank shaft Flywheel shaft Thrust shaft Intermediate shafts Tub

Screw shaft Propeller Stern tube Engine seatings Engine holding down

Completion of fitting sea connections Completion of pumping arrangements Engines tried under working con

Crank shaft, material Identification mark 4688 T.H.S Flywheel shaft, material Identification

Thrust shaft, material 2770 E.H.B. 12/10/48 Identification mark Intermediate shafts, material Identification

Tube shaft, material Identification mark Screw shaft, material Identification m

Identification marks on air receivers B.C. 6973 H.W.B 17. 2. 49 B.C. 6974 H.W.B 17. 2. 49

Welded receivers, state Makers' Name

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

Description of fire extinguishing apparatus fitted

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been comp

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 *M.V. Festivity*

General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been built in

supervision of the British Corporation including the manufacturing of all in

Full power & manoeuvring trials were witnessed by Lloyd's Register. The w

good & the engine is in my opinion suitable for fitting in a vessel classed

Society.

The amount of Entry Fee ... £ : : When applied for 26 July 1949

2/3 Special (B.C. rule) ... £ 18 : 13 : 4 When received 19

Donkey Boiler Fee... £ : : When received 19

Travelling Expenses (if any) £ 5 : 16 : 0

(LR + B.C.) TUES. 3 JAN 1950

Assigned See hon 119096

Certificate (if required) to be sent to Committee's Minute

