

REPORT ON OIL ENGINE MACHINERY.

No. 53199.

pt. 4b.

NOV 1945

Received at London Office

23 NOV 1945

Date of writing Report

19

When handed in at Local Office

21 NOV 1945

19

Port of

HULL

To. in Survey held at

Goole

Date, First Survey

11. 4. 45.

Last Survey

6. 11.

1945.

Number of Visits

16.

on the
 Single
 Triple
 Quadruple
 Screw vessel

"ACTUALITY"

Tons
 Gross 944.59
 Net 498.89

uilt at

Goole

By whom built

Goole Ship Building & Rep. Co. Ltd. Yard No. 426

When built 1945

Engines made at

hambury

By whom made

hambury Diesel Co. Ltd.

Engine No.

806

When made

4

Monkey Boilers made at

By whom made

Boiler No.

—

When made

—

ake Horse Power

600 ✓

Owners

P. J. Edwards & Son Ltd.

Port belonging to

London

m. Horse Power as per Rule

168 ✓

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ade for which vessel is intended

Coastal

ENGINES, &c.

Type of Engines

Compression Ignition Airless Injection 2 or 4 stroke cycle 25C

Single or double acting SA ✓

imum pressure in cylinders

700 lb

Diameter of cylinders

320 mm ✓

Length of stroke

426 mm ✓

No. of cylinders

6 ✓

No. of cranks

6 ✓

m Indicated Pressure

80 ✓

measured from inner edge to inner edge

452 mm ✓

Is there a bearing between each crank

Yes

olutions per minute

300 ✓

Flywheel dia.

900 mm ✓

Weight

500 lbs ✓

Means of ignition

Compu. ✓

Kind of fuel used

Low Gas Oil ✓

ank shaft,
 Solid forged
 dia. of journals
 as per Rule
 as fitted

App.
 195 mm

Crank pin dia.

195 mm

Crank Webs

Mid. length breadth

260 mm ✓

Thrust Shaft, diameter at collars

as per Rule

as fitted

7 1/8

Wheel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

6 3/4

Is the tube

shaft fitted with a continuous liner

no

6 3/4 body

10.1.46

be Shaft, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

5 7/8

Is the tube

shaft fitted with a continuous liner

no

6 3/4 body

10.1.46

ize Liners, thickness in way of bushes

as per Rule

as fitted

Thickness between bushes

as per Rule

as fitted

Is the after end of the liner made watertight in the

Yes

10.1.46

eller boss

✓

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

✓

he 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

✓

Is an approved Oil Gland or other appliance fitted at the after end of the tube

Yes

Length of Bearing in Stern Bush next to and supporting propeller

2' 7"

Is so, state type

humbert

✓

wo 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

Yes

Length of Bearing in Stern Bush next to and supporting propeller

2' 7"

Is so, state type

humbert

✓

propeller, dia.

6' 6"

Pitch

3' 9 1/2"

No. of blades

4

Material

M.B.

whether Moveable

Solid

Total Developed Surface

16.72 sq. feet

ethod of reversing Engines

braked air

Is a governor or other arrangement fitted to prevent racing of the engine when declutched

Yes

Means of lubrication

Yes

Thickness of cylinder liners

32 mm

Are the cylinders fitted with safety valves

Yes

Are the exhaust pipes and silencers water cooled or lagged with

conducting material

lagged

ling Water Pumps, No.

One ME. One ind.

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Yes

Can one be overhauled while the other is at work

Yes

No. and Size

Two 110 mm x 120 mm

One 70 tons/hr

✓

Ind. Aux. Eng.

✓

umps connected to the Main Bilge Line

How driven

ME

✓

Ind. Aux. Eng.

✓

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Yes

Can one be overhauled while the other is at work

Yes

No. and Size

Two 110 mm x 120 mm

One 70 tons/hr

he cooling 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

✓

arrangements

✓

Power Driven Lubricating Oil Pumps, including Spare Pump, No.

and size

Two 2 1/2" in E.R.

✓

Two 2 1/2" in E.R.

✓

Two 2 1/2" in E.R.

two independent means arranged for circulating water through the Oil Cooler

Yes

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

In Pump Room

✓

No. and size

One 100 tons/hr

One 70 tons/hr

One 2 1/2" in E.R.

One 2 1/2" in E.R.

8.75 tons/hr

ps, No. and size:—In Machinery Spaces

Seven 2 1/2" in E.R.

olds, &c.

One P One S in each hold

2 1/2" N° 1

3" N° 2

HOLD

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

One 3"

✓

Are the Bilge Suctions in the Machinery Spaces

Yes

Are the Bilge Suctions in the Machinery Spaces

all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes

Yes

Are they fitted with Valves or Cocks

Valves

✓

Are the Overboard Discharges above or below the deep water line

above

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

How are they protected

✓

Have they been tested as per Rule

t pipes pass through the bunkers

None

Have they been tested as per Rule

Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

How are they protected

✓

Have they been tested as per Rule

Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

How are they protected

t pipes pass through the deep tanks

None

Have they been tested as per Rule

Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

How are they protected

✓

Have they been tested as per Rule

Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

How are they protected

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

Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

How are they protected

✓

Have they been tested as per Rule

Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

How are they protected

✓

Have they been tested as per Rule

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

"ACTUALITY."

AIR RECEIVERS:—Have they been made under survey *Yes* ✓ State No. of Report or Certificate *C 3990/1/2/3*
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. *NONE* Cubic capacity of each */* Internal diameter */* thickness */*
Seamless, lap welded or riveted longitudinal joint */* Material */* Range of tensile strength */* Working pressure */*
Starting Air Receivers, No. *Four* ✓ Total cubic capacity *52 cu.ft.* Internal diameter *19"* ✓ thickness *1/2"* ✓
Seamless, lap welded or riveted longitudinal joint *long seam* ✓ Material *mild steel* ✓ Range of tensile strength *Ends 24/30* ✓ Working pressure *by Rules 400 lb* ✓
Actual *Appd.*

IS A DONKEY BOILER FITTED? *NONE* If so, is a report now forwarded? *✓*
Is the donkey boiler intended to be used for domestic purposes only *✓* *See shaft 10.1.46*
PLANS. Are approved plans forwarded herewith for Shafting *6.4.44* ✓ Receivers *12.6.42* Separate Fuel Tanks *6.10.42*
(If not, state date of approval)
Donkey Boilers *✓* General Pumping Arrangements *1.10.42* Pumping Arrangements in Machinery Space *30.11.44*
Oil Fuel Burning Arrangements *30.11.44*
SPARE GEAR.
Has the spare gear required by the Rules been supplied *Yes* ✓
State the principal additional spare gear supplied *These are attached list.*

The foregoing is a correct description,

Manufacturer.

See London Rpt. N° 113,082.
Dates of Survey while building { During progress of work in shops-- }
{ During erection on board vessel-- } *1945 Apr 11, 17, 20 May 21, 28 Aug 25 SEP 26, 27, 29 OCT 1, 16, 17, 25, 29, 30 Nov 6*
Total No. of visits *16.*
Dates of Examination of principal parts—Cylinders *Rpt* Covers *N° 11308* Pistons *25.8.45* Rods *25.8.45* Connecting rods *26.9.45*
Crank shaft *See Flywheel shaft London* Thrust shaft *N° 11308* Intermediate shafts *25.8.45* Tube shaft */*
Screw shaft *21.7.45* Propeller *21.7.45* Stern tube *21.7.45* Engine seatings *25.8.45* Engines holding down bolts *26.9.45*
Completion of fitting sea connections *21.7.45* Completion of pumping arrangements *6.11.45* Engines tried under working conditions *6.11.45*
Crank shaft, Material *See London* Identification Mark *Rpt N°* Flywheel shaft, Material *E* Identification Mark *4505 CP*
Thrust shaft, Material */* Identification Mark *113082* Intermediate shafts, Material *FISTL* Identification Marks *HYB*
Tube shaft, Material *NONE* Identification Mark *✓* Screw shaft, Material *FISTL* Identification Mark *HYB*
Identification Marks on Air Receivers *30840* } *30839* } *30841* } *30838*
LLOYDS N° & TEST PRESS. *3992. 600 lb* } *3991. 600 lb* } *3993. 600 lb* } *3990. 600 lb*
W.PRESS & DATE *400 lb 27/6/45* } *400 lb 27/6/45* } *400 lb 27/6/45* } *400 lb 25/6/45*
HMD } *HMD* } *HMD* } *HMD*
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* ✓
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 *"ADAPTITY"* ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
The machinery of this vessel has been installed on board the motor coaster "ACTUALITY" at Gooli under Special Survey in accordance with the Rules, the Secretary's letters and approved plans. The workmanship and material are good.
*The machinery has been tried under working conditions found satisfactory and is eligible to be recorded in the Register Book *LMC 11,45 O.G.*
Oil Engines 2SCSA 6 cylinders 12 5/8" - 16 3/4"

The amount of Entry Fee .. £ : : When applied for,
Special FITT-OUT M £ *13-18/4* *11 NOV 1946*
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : *19*

Committee's Minute
Assigned

FRI. 18 JAN 1946

FRI 4 JUL 1947

Deferred + LMC 11.45 Oil Eng.
S.N. 6.47
O.G.

W.S. Shields
Engineer Surveyor to Lloyd's Register of Shipping