

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office.

29 JUN 1943

Port of Hull

Survey Report

When handed in at Local Office

Date, First Survey FEB 11

Last Survey June 15 1943

(Number of Visits 25)

Survey held at Beverley & Hull

on the Steel Single Screw "BLACKBIRD"

Tons { Gross 442
Net 149

Beverley

By whom built Cook, Wilson & Gemmell Ltd.

Yard No. 709

When built 1943

made at Oldham

{ By whom made Buckley & Taylor Ltd.
Chas. D. Holmes

Engine No. 1349

When made

made at Hull

By whom made Chas. D. Holmes

Boiler No. 1645

When made

red Horse Power

Owners Admiralty

Port belonging to

orse Power as per Rule

156

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

r which vessel is intended

H.M. minelaying trawler

S, &c.—Description of Engines

Triple Exp. Steam Recip No.

Revs. per minute 150

Cylinders 13 1/2", 23", 38"

Length of Stroke 27"

No. of Cylinders 3

No. of Cranks 3

aft, dia. of journals

as per Rule 4 7/8"

Crank pin dia. 7 7/8"

Crank webs

Mid. length breadth

Thickness parallel to axis

as fitted 7 7/8"

as per Rule 7.15"

as fitted 7 1/4"

Mid. length thickness

shrunk

Thickness around eye-hole 4 3/16 PINS.

iate Shafts, diameter

as per Rule 7.15"

as fitted 7 1/4"

Thrust shaft, diameter at collars

as per Rule 7.5"

as fitted 7 7/8"

afts, diameter

as per Rule

Screw Shaft, diameter

as per Rule 8.2"

as fitted 8 1/4"

Is the { tube
screw } shaft fitted with a continuous liner { No

Liners, thickness in way of bushes

as per Rule

Thickness between bushes

as fitted

Is the after end of the liner made watertight in the

r boss

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

ner 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

iners 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 If so, state type NEWARK

Length of Bearing in Stern Bush next to and supporting propeller 36 1/2"

er, dia.

Pitch 9' 4"

No. of Blades 3

Material C.I.

whether Moveable SOLID

Total Developed Surface 30 sq. feet

umps worked from the Main Engines, No. 2

Diameter 2 1/2"

Stroke 1' 3"

Can one be overhauled while the other is at work YES

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Stroke 1' 3"

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No. and size One 4' x 6' x 12' Wais

Pumps connected to the

Main Bilge Line

No. and size One 6' x 5 1/2' x 15' Wais

How driven Independent Str

How driven Ind. Str

also Donkey

Pumps, No. and size NONE

Lubricating Oil Pumps, including Spare Pump, No. and size NONE

no independent means arranged for circulating water through the Oil Cooler NONE

Suctions, connected to both Main Bilge Pumps and Auxiliary

Pumps:—In Engine and Boiler Room E.R. 2 at 2" dia. 1 at 3 1/2"

B.R. 2 at 2" dia. & one 2 1/2"

ump Room NONE

In Holds, &c. One 2" in each of the following: Forepeak, Chain lockers,

Hold, Engine Room, Shaft Space, (Aft peak & Steering Gear Compartment)

Water Circulating Pump Direct Bilge Suctions, No. and size One 5" bore

Independent Power Pump Direct Suctions to the Engine Room Bilges,

nd size One 3 1/2" includes above

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes YES

he Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges YES

all Sea Connections fitted direct on the skin of the ship YES

Are they fitted with Valves or Cocks VALVES

hey fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates YES

Are the Overboard Discharges above or below the deep water line at W.L.

hey each fitted 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

t Pipes pass through the bunks. The main, big reserve for suction

How are they protected Robust wood casings

t pipes pass through the deep tanks NONE

Have they been tested as per Rule YES

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

ie 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 YES

Is the Shaft Tunnel watertight YES

Is it fitted with a watertight door Access from flat above worked from

N BOILERS, &c.—Letter for record S

Total Heating Surface of Boilers 2650 sq

ich Boilers are fitted with Forced Draft ALL

Which Boilers are fitted with Superheaters none

and Description of Boilers One single ended multi-tubular cylindrical

Working Pressure 200 lb

A REPORT ON MAIN BOILERS NOW FORWARDED?

A DONKEY BOILER FITTED? No

If so, is a report now forwarded? YES

n the donkey boiler be used for domestic purposes only

ANS. Are approved plans forwarded herewith for Shafting 17.7.39 Main Boilers 17.7.39 Auxiliary Boilers

Donkey Boilers

(If not state date of approval)

perheaters

General Pumping Arrangements 2.12.42

Oil fuel Burning Piping Arrangements

SPARE GEAR.

as the spare gear required by the Rules been supplied YES

ate the principal additional spare gear supplied See attached list

The foregoing is a correct description.

Manufacturer.



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Lloyd's Register
Foundation

004541-004547-0040

BLACK BIRD

[illegible]

The machinery of this vessel installed on board in accordance with the Secretary's letter, approves plans, the Rules and the Specification. The materials and workmanship are good. The machinery has been tried during Basin Trials and found satisfactory in every respect. Vessels' machinery is eligible in my opinion to be classed in the Register.

Book * LMC 6,43. OG. T 3cy. 13½", 23", 38" - 27". 200 lb
15E. 3Cf. 2650 # H.S. 63 # G.S. F.D.

The amount of Entry Fee	£	:	:	When applied for, 29 JUN 1947
Special <i>Class 29</i> <i>Spec. 36</i>	£ 45	:	-	
Donkey Boiler Fee ...	£	:	:	When received, 19
Travelling Expenses (if any)	£	:	:	

ADMIRALTY.

A/c rendered from
London 18 AUG. '43....

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 6 JUL 1943

Assigned

+ LMC 643

FD OG