

nd a List of

4b.

REPORT ON OIL ENGINE MACHINERY.

No. 126975

Received at London Office.

5 MAY 1948

LIVERPOOL

of writing Report 18-3-48 19

When handed in at Local Office 19-4-48 19

Port of

in Survey held at Northwich

Date, First Survey 4/9/47

Last Survey 9/3/48

Number of Visits 9

Single
on the Twin
Triple
Quadruple

Screw vessel

M.V. "MOEARA"

Tons

Gross

Net

at Northwich

By whom built Isaac Priblott & Sons Ltd

Yard No. 674

When built 1948

ines made at Keighley

By whom made H. Widdop & Co

Engine No. 4749

When made 1947

key Boilers made at None

By whom made

Boiler No. -

When made -

ke Horse Power 150

Owners Anglo Sax on Petroleum Co

Port belonging to

Power as per Rule 64

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

de for which vessel is intended

ENGINES, &c. —Type of Engines

2 or 4 stroke cycle Single or double acting

imum pressure in cylinders

Diameter of cylinders 226

Length of stroke

No. of cylinders

No. of cranks

in Indicated Pressure

Ahead Firing Order No. Cylinders

Span of bearings, adjacent to the crank, measured

n inner edge to inner edge

Is there a bearing between each crank

Revolutions per minute

heel dia.

Weight

Moment of inertia of flywheel (16lbs. in² or Kg.cm.²)

Means of ignition

Kind of fuel used

nk

Solid forged
Semi built
All built

dia. of journals

as per Rule

as fitted

Crank pin dia.

Crank webs

Mid. length breadth

shrunk

Thickness parallel to axis

Thickness around eyehole

heel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

Thrust Shaft, diameter at collars

as fitted

ie Shaft, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

Is the { tube
screw } shaft fitted with a continuous liner {

nze 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

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-

rosive. 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

of tube shaft

If so, state type

Length of bearing in Stern Bush next to and supporting propeller 19 1/2

PELLER, dia. 47

Pitch 33 1/2

No. of blades 3

Material Bronze

whether moveable No

Total developed surface 5.55

sq. feet

ment of inertia of propeller (16lbs. in² or Kg.cm.²)

Kind of damper, if fitted

thod of reversing Engines Direct

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

Means of

ication

Direct

Thickness of cylinder liners

Are the cylinders fitted with safety valves

Are the exhaust pipes and silencers water cooled

ugged with non-conducting material

Yes

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

to the engine

Abend

Cooling Water Pumps, No. One

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

Yes

ge Pumps worked from the Main Engines, No. One

Diameter 3 3/4

Stroke 1.875

Can one be overhauled while the other is at work

mps connected to the Main Bilge Line

No. and size

One M.E. 3 3/4 x 1.875

How driven

Main engine

One G.S. Centrifugal 90 gal/min 240' head

Aux engine

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

Yes

last Pumps, No. and size

One Centrifugal 90 g.p.m.

Hamworthy 73028

Power Driven Lubricating Oil Pumps, including spare pump, No. and size

see Leeds Rpt

two independent means arranged for circulating water through the Oil Cooler

No

Suctions, connected to both main bilge pumps and auxiliary

pumps, No. and size:—In machinery spaces

2 - 2"

In pump room

1 - 2"

olds, &c.

1 - 2"

ependent Power Pump Direct Suctions to the engine room bilges, No. and size

One - 2 1/2"

g.s. pump

Are the bilge suction pipes in holds and tunnel well fitted with strum-boxes

Yes

Are the bilge suction pipes in the machinery spaces led from easily

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

Yes

Are they fixed

Both

Are they fixed

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

None

Have they been tested as per Rule

all pipes pass through the deep tanks

None

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

Yes

Is the shaft tunnel watertight

None

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

Yes

in Air Compressors, No.

No. of stages

diameters

stroke

driven by

iliary Air Compressors, No.

See Leeds Rpt

No. of stages

diameters

stroke

driven by

all Auxiliary Air Compressors, No.

Yes

No. of stages

diameters

stroke

driven by

at provision is made for first charging the air receivers

Hand Start Aux engine with compressor

venting Air Pumps, No.

diameter

stroke

driven by

iliary Engines crank shafts, diameter

as per Rule

as fitted

See Leeds Rpt

No.

Position

Is a report sent herewith

Leeds Rpt

be the auxiliary engines been constructed under special survey

Yes

Is a report sent herewith

Leeds Rpt

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011071-011078-0081

Lloyd's Register

Foundation

2021

AIR RECEIVERS:—Have they been made under survey Yes ✓ State No. of report or certificate Notttingham 7: C. 660524 66063
Is each receiver, which can be isolated, fitted with a safety valve as per Rule on each component
Can the internal surfaces of the receivers be examined and cleaned ✓ 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, welded or riveted longitudinal joint ✓ Material _____ Range of tensile strength _____ Working pressure _____
Starting Air Receivers, No. 2 ✓ Total cubic capacity _____ Internal diameter 10 1/2 thickness _____
Seamless, welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength _____ Working pressure _____

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 20.1.47 Receivers 1.3.48 Separate fuel tanks 12
(If not, state date of approval) 12.7.46 Pumping arrangements in machinery space as above
Donkey boilers ✓ General pumping arrangements Amended as per fitted plan
Oil fuel burning arrangements ✓
Have Torsional Vibration characteristics been approved ✓ Date of approval _____

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes ✓
State the principal additional spare gear supplied As per specification

FOR ISAAC PIMBLOTT & SONS LTD.

The foregoing is a correct description,

Isaac Pimblott
Manufacturing Director

Dates of Survey while building
During progress of work in shops - ✓
During erection on board vessel - ✓
Total No. of visits _____
Dates of examination of principal parts—Cylinders _____ Covers _____ Pistons _____ Rods _____ Connecting rods _____
Crank shaft ✓ Flywheel shaft ✓ Thrust shaft _____ Intermediate shafts ✓ Tube shaft ✓
Screw shaft _____ Propeller _____ Stern tube 4.9.47 Engine seatings 11.6.47 Engine holding down bolts 11.12.47
Completion of fitting sea connections 4.9.47 Completion of pumping arrangements 11.2.48 Engines tried under working conditions 3.3.48
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 DBW 4
Identification marks on air receivers D. 1637. 81/461014. 2 D. 1639. 81/461014
LLOYDS TEST. LLOYDS TEST. 28.1.48.

Welded receivers, state Makers' Name _____
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 Portable fire extinguishers in E.R.
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 No
Is this machinery duplicate of a previous case Yes If so, state name of vessel "Moebai"

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

The machinery of this vessel has been built under special survey and in accordance with the approved plans and amended specification.
Workmanship and materials are good.
It has been properly fitted on board, tried under working conditions during basin and river trials and found satisfactory.
In my opinion the machinery of this vessel is eligible to be classed in the Register Book with a notation of
4 LMC 3-48
TS (09) -

1/3. Bal of Fee
The amount of Entry Fee ... £ 6 : 13 : 4
Specification ... £ 5 : 0 : 0
Special ... £ : : :
Donkey Boiler Fee... £ : : :
Travelling Expenses (if any) £ 11 : 6 : 8
When applied for 30 APR 1948
When received 19

(Committee's Minute)

Assigned + LMC 3-48 O.G.
OIL ENGINES.

C. Reed for W. H. Wagon
Engineer Surveyor to Lloyd's Register of Shipping
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