

REPORT ON OIL ENGINE MACHINERY.

No. 49089

Received at London Office 24 APR 1929

Writing Report

10

When handed in at Local Office

19 4 1029 Port of GLASGOW.

Survey held at

Book.

Date, First Survey 3 4 28

Last Survey 16 April 1929

Number of Visits 77

on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel

MANUNDA.

Tons Gross 9115
Net 5300

at Salma

ines made at Glasgow

Boilers made at

Horse Power 6800

Horse Power as per Rule 1304

for which vessel is intended

By whom built W. Beardmore & Co. Ltd.

Yard No. 651 When built 1929.

By whom made Harland & Wolff Ltd.

Engine No. 3363 When made 1929

By whom made

Boiler No. When made

Owners The Adelaide M. Coy. Ltd.

Port belonging to

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted Yes.

ENGINES, &c. Type of Engines

Vertical, reciprocating.

2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders

500 lb./sq. in.

Diameter of cylinders

740 mm.

Length of stroke

1500 mm.

No. of cylinders

16

No. of cranks

16

of bearings, adjacent to the Crank, measured from inner edge to inner edge

1004 mm.

Is there a bearing between each crank Yes

Revolutions per minute

118

Turning Moment

2489 mm.

Weight

2.4 tons

Means of ignition

Compression

Kind of fuel used

Diesel

Crank Shaft, dia. of journals

as per Rule 485 mm.

Crank pin dia.

495 mm.

Crank Web

Mid-length breadth

820 mm.

Thickest parallel to axis

300 mm.

Wheel Shaft, diameter

as fitted 4-3-28

Intermediate Shafts, diameter

as fitted 4-3-28

Thrust Shaft, diameter at collars

as fitted 15"

Shaft, diameter

as fitted 15"

Shaft, diameter

as fitted 15"

Screw Shaft, diameter

as fitted 16 3/16"

Is the shaft fitted with a continuous liner

Yes

Shaft, diameter

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shifting
(If not, state date of approval)

Receivers

Separate Tanks

Donkey Boilers

General Pumping Arrangements

Oil Fuel Burning Arrangements

SPARE GEAR

As per attached list.

AQUHAM

The foregoing is a correct description,

For HARLAND & WOLFE LTD.

J. C. Egan

Manufacturer.

MANAGER FIMMISTON WORKS

Dates of Survey while building
During progress of work in shops - 22 Apr 23 13 17 24 30 May 7 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
During erection on board vessel - 14 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Nov. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Dec. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Jan. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Feb. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Total No. of visits - 77

Dates of Examination of principal parts - Cylinders 2-10-28 Covers 2-10-28 Pistons 18-9-28 Rods 18-9-28 Connecting rods 19-9-28 Crank shaft 11-9-28 27-9-28 Flywheel shaft 13-11-28 Thrust shaft 13-11-28 Intermediate shafts 13-11-28 Tube shaft 13-11-28

Screw shaft 1-11-28 Propeller 1-11-28 Stern tube 19-10-28 Engine seatings 13-11-28 Engines holding down bolts 26-2-29

Completion of fitting sea connections 27-11-28 Completion of pumping arrangements 4/4/29 Engines tried under working conditions 16-4-29

Crank shaft, Material Steel Identification Mark 2414 Flywheel shaft, Material 8 Identification Mark 2414

Thrust shaft, Material 8 Identification Mark 2414 Intermediate shafts, Material 8 Identification Mark 2414

Tube shaft, Material 8 Identification Mark 2414 Screw shaft, Material 8 Identification Mark 2414

Is the flash point of the oil to be used over 150° F. 74

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with 74

Is the machinery duplicate of a previous case 40 If so, have the requirements of the Rules been complied with 74

Is this machinery duplicate of a previous case 40 If so, state name of vessel 74

General Remarks (State quality of workmanship, opinion as to class, etc.)

These engines have been built under Special Survey in accordance with the Rules. The materials and workmanship are good. They have been properly fitted on board, tried under full working conditions and found satisfactory. They are eligible in our opinion to have the record in the Register Book of L.M.C. 4-29

The amount of Entry Fee ... £ 6 : - : When applied for, 19/4/29
Special ... £ 106 : - :
Donkey Boiler Fee ... £ 22 : - :
Travelling Expenses (if any) £ : : When received, 27-4-29

Committee's Minute GLASGOW 23 APR 1929

Assigned L.M.C. 4-29

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