

REPORT ON OIL ENGINE MACHINERY.

No 10,530.

30 MAY 1941

Received at London Office

Date of writing Report

17th MAY 1941

When handed in at Local Office

28th MAY 1941, Port of

MANCHESTER.

To in Survey held at
eg. Book.

KEIGHLEY.

Date, First Survey

31 JAN. 1941.

Last Survey 12th MAY 1941

Number of Visits

4

Single
on the Twin Screw vessel
Triple
QuadrupleTons
Gross
Net

Built at GAINSBOROUGH.

By whom built J.S. WATSON (GAINSBOROUGH) LD.

Yard No. 621 When built

Engines made at KEIGHLEY.

By whom made H. WIDDOP & CO. LD.

Engine No. 4023 When made 1941

Monkey Boilers made at

By whom made

Boiler No. - When made -

Brake Horse Power 300.

Owners

Port belonging to

Nom. Horse Power as per Rule 738.140

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted ☒ ES.

Trade for which vessel is intended

COASTING VESSEL.

L ENGINES, &c. Type of Engines VERTICAL SOLID INJECTION. 2 or 4 stroke cycle 2 Single or double acting SINGLE.

Maximum pressure in cylinders 650 LBS.

Diameter of cylinders 11.5"

Length of stroke 13.5"

No. of cylinders 6.

No. of cranks 6.

Mean Indicated Pressure 53.5 LBS/sq. in.

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

16.75"

Is there a bearing between each crank ☒ ES.

Revolutions per minute 330.

Flywheel dia. 36.75"

Weight 15.6 CENTS.

Means of ignition COMPRESSION.

Kind of fuel used HEAVY OIL.

Crankshaft,
 Splid forged
 dia. of journals
 as per Rule
 as fittedAPPROVED.
6.75"

Crank pin dia. 6.75"

Crank Webs

Mid. length breadth 9"
Mid. length thickness 3.75"Thickness parallel to axis SOLID.
Thickness around eyeholeFlywheel Shaft, diameter
as per Rule
as fittedIntermediate Shafts, diameter
as per Rule
as fittedAPPROVED.
4"Thrust Shaft, diameter at collars
as per Rule
as fittedAPPROVED.
4.75"Stern Shaft, diameter
as per Rule
as fittedScrew Shaft, diameter
as per Rule
as fittedAPPROVED.
4 3/8"Is the screw shaft fitted with a continuous liner ☒Bronze Liners, thickness in way of bushes
as per Rule
as fittedThickness between bushes
as per Rule
as fitted

Is the after end of the liner made watertight in the

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

If the 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

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 end of the tube

Shaft ☒ ES. If so, state type. ROTATING RUBBER SLEEVE TYPE.

Length of Bearing in Stern Bush next to and supporting propeller 19.5"

Propeller, dia. 59.5" Pitch 43"

No. of blades 4.

Material C.

whether Moveable No.

Total Developed Surface 9.6 sq. feet

Method of reversing Engines

DIRECT

Is a governor or other arrangement fitted to prevent racing of the engine when decelerated ☒ ES.

Means of lubrication

FORCED Thickness of cylinder liners 1/8"

Are the cylinders fitted with safety valves ☒ ES

Are the exhaust pipes and silencers water cooled or lagged with

non-conducting material ☒ ES. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine.

Cooling Water Pumps, No. ONE Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Bilge Pumps worked from the Main Engines, No. ONE

Diameter 4.25"

Stroke 3"

Can one be overhauled while the other is at work

Pumps connected to the Main Bilge Line
No. and Size
How driven

Is the cooling water led to the bilges

If so, state what special arrangements are made to deal with this water in addition to the ordinary

Ballast Pumps, No. and size

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

Are two independent means arranged for

Cooler

Suctions, connected to bilge

Pumps, No. and size:—In

1900-567210-267210

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AIR RECEIVERS: — Have they been made under survey

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, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

Starting Air Receivers, No.

THREE

Total cubic capacity

18.4 cu. ft.

Internal diameter

2. 9 7/8"

thickness

Actual 1 5/16"

Seamless, lap welded or riveted longitudinal joint

SEAMLESS

Material

STEEL

Range of tensile strength

28-32 tons

Working pressure by Rules

Actual 3 50 LBS.

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
(If not, state date of approval)

Receivers

Separate Fuel Tanks

Donkey Boilers

General Pumping Arrangements

Pumping Arrangements in Machinery Space

Oil Fuel Burning Arrangements

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 H. WIDDOP & COMPANY LTD.

Manufacturer.

Dates of Survey while building
(During progress of work in shops --)
(During erection on board vessel --)
Total No. of visits

1941 JAN 31 FEB 19 MAR 7. 12. APRIL 25. 30. MAY 12

Dates of Examination of principal parts—Cylinders 3/1.41 Covers 3/1.41 Pistons 3/1.41 Rods — Connecting rods 3/1.41

Crank shaft 3/1.41 Flywheel shaft — Thrust shaft 12.3.41 Intermediate shafts — Tube shaft —

Screw shaft — Propeller — Stern tube — Engine seatings — Engines holding down bolts —

Completion of fitting sea connections — Completion of pumping arrangements — Engines tried under working conditions —

Crank shaft, Material O.H. STEEL, Identification Mark 40405, 3389, 3/1.41 Flywheel shaft, Material — Identification Mark

Thrust shaft, Material O.H. STEEL, Identification Mark 40405, 297, 12.3.41 Intermediate shafts, Material O.H. STEEL, Identification Marks —

Tube shaft, Material — Identification Mark — Screw shaft, Material O.H. STEEL, Identification Mark —

Identification Marks on Air Receivers C.T. Co. C.T. Co. RUSTON

890450. W.P. 350 LBS.

890451. W.P. 350 LBS.

40. 81. 167. D 870.

40405 TEST 1000 LBS. 7.5.40. L.T.

40405 TEST 1000 LBS. 7.5.40. L.T.

40405 TEST 1000 LBS. 7.6.40. A.S.

Point of the oil to be used over 150° F.

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

apparatus fitted

used for carrying oil as cargo

If so, have the requirements in this respect been complied with

state whether the requirements in this respect have been

previous case



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