

REPORT ON OIL ENGINE MACHINERY.

No. 62180

APR - 3 1940

Received at London Office

Date of writing Report

When handed in at Local Office

1. 4. 1940 Port of GLASGOW

Date, First Survey 1939 May 10th Last Survey 27th March 1940

Number of Visits 56

No. in Survey held at
Reg. Book.Single
on the Twin
Triple
Quadruple

Screw vessel

"SUTLEY"

Tons { Gross 5188.91
Net

Built at

Glasgow

By whom built Chas. Connell & Co. Ltd.

Yard No. 428 When built 1940

Engines made at

do.

By whom made Barclay Curie & Co. Ltd.

Engine No. 123 When made 1940

Donkey Boilers made at

do.

By whom made do.

Boiler No. 123 When made 1940

Brake Horse Power

2250

Owners James Maise Ltd.

Port belonging to London

Nom. Horse Power as per Rule

387

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

Trade for which vessel is intended

20th81st

IL ENGINES, &c. Type of Engines Barclay Curie & Co. Ltd. 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 600 lb. Diameter of cylinders 520 mm Length of stroke 2080 mm No. of cylinders 3 No. of cranks 3

Mean Indicated Pressure 100 lb. Is there a bearing between each crank -

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 1040 mm

Revolutions per minute 123 Flywheel dia. 2240 Weight 4.7 tons F Means of ignition Compression Kind of fuel used Heavy Oil

Crank Shaft, { Solid forged dia. of journals as per Rule 4.7 tons F Crank pin dia. 4.10 mm Crank Webs Mid. length breadth 580 mm Thickness parallel to axis 230 mm

Flywheel Shaft, diameter as per Rule 380 mm Intermediate Shafts, diameter as per Rule 12 1/2" Thrust Shaft, diameter at collars as per Rule 4.10 mm

Tube Shaft, diameter as per Rule 12 1/2" 13 1/4" Is the { screw } shaft fitted with a continuous liner, Yes

Bronze Liners, thickness in way of bushes as per Rule 3/4" Thickness between bushes as per Rule 17/32" Is the after end of the liner made watertight in the

propeller boss Yes 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 No If so, state type - Length of Bearing in Stern Bush next to and supporting propeller 4'-3"

Propeller, dia. 14'-0" Pitch 10'-6" No. of blades 4 Material Bronze whether Moveable No Total Developed Surface 81 sq. feet

Method of reversing Engines Comp. Air Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication

Fixed Thickness of cylinder liners 20 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

non-conducting material Lagged 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 F.W. One S.W. Main Eng. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Bilge Pumps worked from the Main Engines, No. none Diameter - Stroke - Can one be overhauled while the other is at work -

Pumps connected to the Main Bilge Line { No. and size 10 10" x 12" x 24" 10 11" x 9" x 18" How driven Steam

Is the 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 -

Ballast Pumps, No. and size 10 10" x 12" x 24" Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size M.E. 80 mm x 520 mm

Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

Pumps, No. and size: - In Machinery Spaces 4 03": 1 each 2" F + A 10 2 1/2": 1 each 10 2 1/2": 1 each 10 2 1/2": 1 each 10 2 1/2": 1 each 10 2 1/2": 1 each

In Holds, & No. 1 H.C.A. 2 03": No. 2 H.C.A. 2 04": No. 3 H.C.A. 2 03": No. 4 H.C.A. 2 03": No. 5 H.C.A. 2 03": No. 6 H.C.A. 2 03": No. 7 H.C.A. 2 03": No. 8 H.C.A. 2 03": No. 9 H.C.A. 2 03": No. 10 H.C.A. 2 03": No. 11 H.C.A. 2 03": No. 12 H.C.A. 2 03": No. 13 H.C.A. 2 03": No. 14 H.C.A. 2 03": No. 15 H.C.A. 2 03": No. 16 H.C.A. 2 03": No. 17 H.C.A. 2 03": No. 18 H.C.A. 2 03": No. 19 H.C.A. 2 03": No. 20 H.C.A. 2 03": No. 21 H.C.A. 2 03": No. 22 H.C.A. 2 03": No. 23 H.C.A. 2 03": No. 24 H.C.A. 2 03": No. 25 H.C.A. 2 03": No. 26 H.C.A. 2 03": No. 27 H.C.A. 2 03": No. 28 H.C.A. 2 03": No. 29 H.C.A. 2 03": No. 30 H.C.A. 2 03": No. 31 H.C.A. 2 03": No. 32 H.C.A. 2 03": No. 33 H.C.A. 2 03": No. 34 H.C.A. 2 03": No. 35 H.C.A. 2 03": No. 36 H.C.A. 2 03": No. 37 H.C.A. 2 03": No. 38 H.C.A. 2 03": No. 39 H.C.A. 2 03": No. 40 H.C.A. 2 03": No. 41 H.C.A. 2 03": No. 42 H.C.A. 2 03": No. 43 H.C.A. 2 03": No. 44 H.C.A. 2 03": No. 45 H.C.A. 2 03": No. 46 H.C.A. 2 03": No. 47 H.C.A. 2 03": No. 48 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AIR RECEIVERS:—Have they been made under survey Yes

State No. of Report or Certificate

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. ✓

Cubic capacity of each —

Internal diameter — thickness —

Seamless, lap welded or riveted longitudinal joint —

Material —

Range of tensile strength —

Working pressure — by Rules — Actual —

Starting Air Receivers, No. 2

Total cubic capacity 250 cu. ft.

Internal diameter 4'-1 1/2"

thickness 1 3/32

Seamless, lap welded or riveted longitudinal joint Welded

Material Stal

Range of tensile strength 29-39 tons

Working pressure 600 lb. by Rules 600 lb. Actual 600 lb.

IS A DONKEY BOILER FITTED? Yes

If so, is a report now forwarded? Yes

Is the donkey boiler intended to be used for domestic purposes only No

PLANS. Are approved plans forwarded herewith for Shafting Yes

(If not, state date of approval)

Receivers Yes

Separate Fuel Tanks Yes

Donkey Boilers Yes

General Pumping Arrangements Yes

Pumping Arrangements in Machinery Space Yes

Oil Fuel Burning Arrangements Yes

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied List Attached



The foregoing is a correct description.

For BARCLAY, GURLE & Co., Ltd.

Alexander Macnutt, Manufacturer.

Dates of Survey while building: During progress of work in shops-- 1939 May 10, June 14, 22, July 10, Aug. 2, 11, 18, 23, 28, Sept. 4, 11, 22, 26, 29, Oct. 2, 5, 9, 11, 16, 17, 19, 26, 27, 30, Nov. 3, 6, 8, 9, 10, 15, 17, 20, 24, 27, 29, Dec. 1, 6, 7, 8, 29, 29. During erection on board vessel-- 1940 Jan. 5, 8, 11, 12, 16, 24, 30 Feb. 5, 9, 13, 20, 26, Mar. 18, 27. Total No. of visits 56.

Dates of Examination of principal parts—Cylinder 3-8/11/39 Covers — Pistons 17/11/39 Rods 17/11/39 Connecting rods 12/1/40

Crank shaft 29/12/39 Flywheel shaft 29/12/39 Thrust shaft 29/12/39 Intermediate shafts 8/1/40 Tube shaft —

Screw shaft 5/1/40 Propeller 5/1/40 Stern tube 11/1/40 Engine seatings 5/2/40 Engines holding down bolts 26/2/40

Completion of fitting sea connections 11/1/40 Completion of pumping arrangements 15/3/40 Engines tried under working conditions 27/3/40

Crank shaft, Material S.M. Steel Identification Mark 9400CSP Flywheel shaft, Material S.M. Steel Identification Mark 3.9574 CSP

Thrust shaft, Material S.M. Steel Identification Mark 3.9574 CSP Intermediate shafts, Material S.M. Steel Identification Marks 918, 924, 927

Tube shaft, Material — Identification Mark — Screw shaft, Material S.M. Steel Identification Mark 915 T.T.

Identification Marks on Air Receivers LLOYD'S TEST 800 LBS

WP 610 LBS AIB 22/9/39

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 "INDUS" GLS. RPI No 61982

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. It has been properly installed in the vessel, tested under working conditions at full load and found satisfactory and, in my opinion, is eligible to be classed in the Register Book with notation +LMC 3, 40 and notation CL 2 DB 120 lb.

RB 1/4/40

The amount of Entry Fee .. £ 5 : - :

When applied for, 2 APR 1940

Special ... £ 83 : 1 :

WELDING FEE ... £ 12 : 12 :

DONKEY BOILER FEE ... £ 4 : 4 :

AIR RECEIVERS ... £ 4 : 4 :

Travelling Expenses (if any) ... £ 4 : 4 :

When received, 31/5/1940

Committee's Minute

GLASGOW

2 APR 1940

Assigned

-1- LMC 3. 40

oil eng

2 DB 120 lb

Engineer Surveyor to Lloyd's Register of Shipping.



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