

Rpt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No. 11536.

24 JUN 1953

Received at London Office.

Date of writing Report 8th June, 1953 When handed in at Local Office 8th June, 1953 Port of HONG KONG

No. in Survey held at Cheoy Lee Shipyard Date, First Survey 18th February, 1953 Last Survey 5th June, 1953. Reg. Book. Number of Visits 10

Screw vessel M.S. "SRI TINJAR" Tons Gross 256.7 Net 212.35

Built at Hong Kong By whom built Cheoy Lee Shipyard Yard No. 603 When built 1953

Engines made at Detroit, U.S.A. By whom made Detroit Diesel Engine Division P 6A-21662 When made 1952 General Motors S 6A-21654

Monkey Boilers made at - By whom made - Boiler No. - When made -

Indicated Horse Power 332 total Owners A. F. Clark, Esq. Port belonging to Hong Kong

N. Power as per Rule 66 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

Trade for which vessel is intended Borneo Coasting Service

L ENGINES, &c.—Type of Engines General Motor Series 71 2 or 4 stroke cycle 2 Single or double acting Single
 Maximum pressure in cylinders 500 Diameter of cylinders 4½" Length of stroke 5" No. of cylinders 6 No. of cranks 6
 Mean Indicated Pressure 94 Ahead Firing Order in Cylinders 1-5-3-6-2-4 Span of bearings, adjacent to the crank, measured from inner edge to inner edge 4.3/8" Is there a bearing between each crank Yes Revolutions per minute 1800 Engine 600 Shaft.

Flywheel dia. - Weight - Moment of inertia of flywheel (lbs. in² or Kg. cm.²) - Means of ignition Comp. Kind of fuel used Diesel
 Crank shaft, Solid forged dia. of journals 2.5/16" as per Rule Crank pin dia. 2.3/4" Crank webs Mid. length breadth 4.5/8" Thickness parallel to axis -
 Semi built dia. of journals 3½" as fitted Crank webs Mid. length thickness 1" shrunk Thickness around eyehole -
 All built as per Rule Intermediate Shafts, diameter 2.9/16" as per Rule Thrust Shaft, diameter at collars as fitted -
 as fitted Intermediate Shafts, diameter 2.5/8" as fitted Thrust Shaft, diameter at collars as per Rule -

Propeller Shaft, diameter 3.1/16" as per Rule Is the screw shaft fitted with a continuous liner Approved
 as fitted Intermediate Shafts, diameter 3.1/4" as fitted Is the screw shaft fitted with a continuous liner as C.L. ✓

Liner thickness in way of bushes 13/32" as per Rule Thickness between bushes 13/32" as fitted Is the after end of the liner made watertight in the
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner -

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-
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after
 Length of bearing in Stern Bush next to and supporting propeller 1'-1" in bush
 1'-5" in 1" bkt.

Propeller, dia 3'-4" Pitch 2'-9½" No. of blades 3 Material Manganese Bronze whether moveable - Total developed surface 2.8 sq. feet

Moment of inertia of propeller (lbs. in² or Kg. cm.²) - Kind of damper, if fitted -

Method of reversing Engines reverse gear Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of
 Clutch and

lubrication Forced Thickness of cylinder liners .20" Are the cylinders fitted with safety valves No Are the exhaust pipes and sile
 with non-conducting material Both If the exhaust is led overboard near the waterline, what means are arranged to prevent water

Cooling Water Pumps, No Three Is the sea suction provided with an efficient strainer which can be cleared

The Main Engines, No One Centrifugal Diameter 2½" Stroke TYPE Can one be overhauled

Two, 2½" dia, suct. & disch. - centrifugal One from main engine One by aux. eng

Special arrangements are made to deal with P

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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, welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....
Starting Air Receivers, No...... Total cubic capacity..... Internal diameter..... 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.....

PLANS. Are approved plans forwarded herewith for shafting..... Approved 14-4-53 Receivers.....
 (If not, state date of approval) Approved 20-4-53 ~~Separate~~ fuel tanks 17-3-53
 Donkey boilers..... General pumping arrangements..... Pumping arrangements in machinery space 20-4-53
 Oil fuel burning arrangements.....
 Have Torsional Vibration characteristics been approved..... Makers requested to supply data 26-3-53 Date of approval.....

SPARE GEAR.

Has the spare gear required by the Rules been supplied..... Yes
 State the principal additional spare gear supplied.....

The foregoing is a correct description,

CHEOY LEE SHIPYARD

Manufacturer. *here*

Dates of Survey while building.....
 During progress of work in shops - - -
 During erection on board vessel - - - Feb. 5th, 18th, 25th, March 7th, 18th, 26th, Apr. 14th, 28th, May 4th, 8th, 13th, 18th, 27th, June 1st, 4th, 5th.
 Total No. of visits..... 16
 Dates of examination of principal parts—Cylinders 14-4-53 Covers 14-4-53 Pistons 14-4-53 Rods 14-4-53 Connecting rods 14-4-53
 Crank shaft 14-4-53 Flywheel shaft..... Thrust shaft..... Intermediate shafts 14-4-53 Tube shaft.....
 Screw shaft 4-6-53 Propeller..... Stern tube..... Engine seatings 4-5-53 Engine holding down bolts 18-5-53
 Completion of fitting sea connections 8-5-53 Completion of pumping arrangements 1-6-53 Engines tried under working conditions 5-6-53

material..... Identification mark..... Flywheel shaft, material..... Identification mark.....
 al..... Identification mark..... Intermediate shafts, material..... Identification mark.....
SPECIAL NOTATION..... Identification mark..... Screw shaft, material Forged steel Identification mark Lloyd's H
 Timber Barge. Makers.....

Yes

Particulars of Drop Test of Cast Steel Anchors, viz.:—
 Weight, Surveyor's Initial Number of Certificate, Date of Test.



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