

REPORT ON OIL ENGINE MACHINERY.

No. 23229.

Received at London Office 10 MAY 1953

Writing Report 6-5-53. When handed in at Local Office 8th May 1953. Port of Leith
Date, First Survey 20-1-1951 Last Survey 22-4-53
Number of Visits 27

Survey held at Leith
Tons Gross 154.12
Net

Single on the Twin Screw vessel Motor Lug M.S.C. "Rover"
By whom built Messrs Henry Robb Ltd. Yard No. 416 When built 1953
By whom made Crossley Bros Ltd. Engine No. 142828 When made 1953

Boilers made at Leith By whom made Owners Manchester Ship Canal Co. Ltd. Port belonging to Manchester
Boiler No. When made

Horse Power Maximum 600 each engine Owners 1200 Total Service 240
Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

for which vessel is intended River and Harbour Towing Services.

ENGINES, &c. — Type of Engines 2 or 4 stroke cycle Single or double acting

Maximum pressure in cylinders Diameter of cylinders Length of stroke No. of cylinders No. of cranks
Indicated Pressure Span of bearings (i.e. distance between inner edges of bearings in revolutions per minute) Maximum Service

Wheel dia. Weight Moment of inertia (lbs. in² or Kg. cm²) Means of ignition Kind of fuel used
" balance wts. (" " " ")

Crk dia. of journals as per Rule as fitted Crank pin dia. Crank webs Mid. length breadth shrunk Thickness parallel to axis
All built as fitted Intermediate Shafts, diameter as per Rule as fitted Thrust Shaft, diameter at collars as per Rule as fitted

Screw Shaft, diameter as per Rule as fitted Is the screw shaft fitted with a continuous liner No

Size Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as fitted Is the after end of the liner made watertight in the

bell boss. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner.
If two liners are fitted, is the shaft lapped or protected between the liners. Is an approved Oil Gland fitted at the after

of stern tube Yes If so, state type VICKERS Length of bearing in Stern Bush next to and supporting propeller 3'-1"
Propeller, dia 7'-0" Pitch 27 No. of blades 4 Material cast iron whether moveable Solid Total developed surface 19.25 sq. feet

Method of reversing Engines Is a governor or other arrangement fitted to prevent racing of the engine. Means of
Thickens of cylinder liners Are the cylinders fitted with the exhaust pipes and silencers water cooled

agged with non-conducting material. If the exhaust pipes near the waterline, what means are arranged to prevent water from being syphoned
to the engine. Cooling Water Pumps, No. and how driven Working F.W. Spare F.W. S.W. Is the sea suction provided with an efficient strainer which can be cleared within the vessel.

Pumps worked from the Main Engines, No. and capacity 2 @ 50 Tons/hr. 1 @ 20 Tons/hr. (Auxiliary Bilge pump)
Pumps connected to the Main Bilge Line No. and capacity of each How driven main engine electric driven

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 bilge pumping
arrangements. Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2 driven by main engine

two independent means arranged for circulating water through the Oil Cooler Yes Branch Bilge Suctions
and size:—In machinery spaces 1 @ 2 1/2" Eng room forward 1 @ 2 1/2" engine room aft. In pump room

holds, &c. 1 @ 2" forward sump tank. Direct Bilge Suctions to the engine room bilges, No. and size 1 @ 2 1/2" s.w. pump suction at forward of R 1 @ 2 1/2" aux bilge pump at aft of R.

Are all the bilge suction pipes in holds and tunnel well fitted with strum-boxes. Yes Are the bilge suction in the machinery spaces led from easily

cessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges. Yes
Are all Sea Connections fitted direct on the skin of the Ship. 6 Saddles Are they fitted with valves or cocks. valves Are they fixed

efficiently high on the ship's side to be seen without lifting the platform plates. Yes Are the overboard discharges above or below the deep water line. Above

Are they each fitted with a discharge valve always accessible on the plating of the vessel. Yes Are the blow off cocks fitted with a spigot and brass covering plate.

What pipes pass through the bunkers. none How are they protected.
What pipes pass through the deep tanks. none Have they been tested as per Rule.

Are all pipes, cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times. Yes
Is the arrangement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery

spaces, or from one compartment to another. Yes Is the shaft tunnel watertight. Is it fitted with a watertight door. worked from.

If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork.
Main Air Compressors, No. Manchester Report No 15393 stroke driven by
Auxiliary Air Compressors, No. Two No. of stages Two diameters 4 1/2 x 1 5/8 stroke 3 1/2 driven by ELECTRIC Motor

Small Auxiliary Air Compressors, No. No. of stages diameters stroke driven by
What provision is made for first charging the air receivers. Electric generator can be driven by either of two diesel engines capable of being started by hand.

Scavenging Air Pumps or Blowers, No. Manchester Report No 15393 Engine Nos. 145555/6
Auxiliary Engines Have they been made under survey. Yes Position of each in engine room Forward end of engine room
Makers name Crossley Bros Ltd. Report No. 15115

MANCHESTER REPORT No 15393

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Boyd's Register Foundation

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AIR RECEIVERS:—Have they been made under survey..... State No. of report or certificate

State full details of safety devices.....

Can the internal surfaces of the receivers be examined and cleaned..... drain fitted at the lowest part of each receiver.....

Injection Air Receivers, No. 1 Cubic capacity 10 Internal diameter..... thickness.....
Seamless, welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....

Starting Air Receivers, No. 1 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.....

Is the donkey boiler intended to be used for domestic purposes only.....

PLANS. Are approved plans forwarded herewith for shafting..... Receivers..... Separate fuel tanks.....
(If not, state date of approval) yes

Donkey boilers..... General pumping arrangements..... Pumping arrangements in machinery space..... yes
Oil fuel burning arrangements.....

Have Torsional Vibration characteristics been approved..... yes Date and particulars of approval..... 20. 4. 50.

SPARE GEAR.

Has the spare gear required by the Rules been supplied..... yes State if for "short voyages" only.....

State the principal additional spare gear supplied.....

HENRY ROBB, LIMITED

The foregoing is a correct description.....

[Signature] DIRECTOR Manufacturer. 8/5/53

Dates of Survey while building: During progress of work in shops - 1951. During erection on board vessel - Mar 20, Aug 29, Sept 18, Oct 14, June 25, Sep 9, 25, 30, Oct 10, Nov 18, 19, 24, Dec 29, Feb 9, March 25, 29, 1953. Total No. of visits - 24

Dates of examination of principal parts—Cylinders, Covers, Pistons, Rods, Connecting rods, Crank shaft, Flywheel shaft, Thrust shaft, Intermediate shafts, Tube shaft, Screw shaft, Propellers, Stern tubes, Engine seatings, Engine holding down bolts, Completion of fitting sea connections, Completion of pumping arrangements, Engines tried under working conditions, 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, Identification marks on air receivers.

Manchester Report No 15893.

Welded receivers, state Makers' Name.....

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

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

Full description of fire extinguishing apparatus fitted in machinery spaces..... As per approved plan.

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.....

What is the special notation desired.....

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..... M.S.C. Quany, Quany Ranger.

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

This machinery has been satisfactorily fitted on board in accordance with the requirements of the Rules and Approved plans.

The materials and workmanship have been found good.

upon completion satisfactory sea trials under full working conditions were carried out.

In accordance with Glasgow Secretary's letter dated 28. 4. 50 the governor has been adjusted to prevent the engine speed rising above 280 rpm.

It is recommended that the record of L.M.C. 4/53, OIL ENGINES. T.S.(O.C.) be made in the Register Books.

The amount of Entry Fee ... £55-4-0

Special ... £

Donkey Boiler Fee... £

Travelling Expenses (if any) £

When applied for 8/5/53. 19

When received 19

[Signature]
Engineer Surveyor to Lloyd's Register of Shipping.



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Committee's Minute

GLASGOW 19 MAY 1953

Assigned

+ L.M.C. 4/53 Oil Engines with torsional endorsement

3244
11/5/53

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

19th
writing Report
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