

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 17 SEP 1936

16 SEP 1936 Port of Hull

Date, First Survey 26th May 1936 Last Survey 9th Sept. 1936

Survey held at Hull. Date, First Survey 26th May 1936 Last Survey 9th Sept. 1936

on the Steam hawler "King Sol"

By whom built Cochrane & Sons Ltd. Yard No. 1168 When built 1936.9

Engines made at Hull By whom made Amos & Smith Ltd. Engine No. 650 When made 1936

Boilers made at Hull By whom made Amos & Smith Ltd. Boiler No. 650 When made 1936

Registered Horse Power 130 Owners Rinovia Steam Fishing Co. Ltd. Port belonging to Grimsby

Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

Trade for which Vessel is intended Fishing

GINES, &c.—Description of Engines Triple Expansion - Reciprocating Revs. per minute 3

No. of Cylinders 3 No. of Cranks 3

Length of Stroke 27" No. of Cylinders 3

Thrust shaft, diameter at collars 8.25" as per Rule 8.11" as fitted 8.25"

Intermediate Shafts, diameter 7.72" as per Rule 8.00" as fitted 8.00"

Screw Shaft, diameter 8.595" as per Rule 8.75" as fitted 8.75"

Is the shaft fitted with a continuous liner Yes

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 Yes

Is the space charged with a plastic material insoluble in water and non-corrosive Yes

Is an approved Oil Gland or other appliance fitted at the after end of the tube Yes

Length of Bearing in Stern Bush next to and supporting propeller 36"

Total Developed Surface 39.5 sq. feet

Can one be overhauled while the other is at work Yes

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One Duplex 6" x 4" x 6" + 3" Ejector

Steam

Lubricating Oil Pumps, including Spare Pump, No. and size 2 @ 2" dia

Suctions, connected to both Main Bilge Pumps and Auxiliary 2 @ 2" dia

In Holds, &c. 6 @ 2" dia

Main Water Circulating Pump Direct Bilge Suctions, No. and size One @ 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 3" dia Ejector

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes

Are the Bilge Suctions in the Machinery Space led from easily accessible 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 Yes

Are they fitted with Valves or Cocks Boil

Are the Overboard Discharges above or below the deep water line Above

Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What Pipes pass through the bunkers Forward suction

How are they protected Wood casings

Have they been tested as per Rule Yes

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 Yes

Is it fitted with a watertight door worked from Yes

MAIN BOILERS, &c.—(Letter for record "S") Total Heating Surface of Boilers 2350 sq. ft.

Is Forced Draft fitted No No. and Description of Boilers One Single Ended R.T. Working Pressure 220 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? Yes

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

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Yes Auxiliary Boilers Donkey Boilers

Superheaters Yes General Pumping Arrangements Oil fuel Burning Piping Arrangements

## SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied

Valves for Donkey Pump.

Impeller and spindle for centrifugal pumps.

The foregoing is a correct description,  
For AMOS & SMITH LTD.

Manufacturer.

MANAGER.

002956-002969-0299

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Lloyd's Register

Foundation



During progress of work in shops - - 1936: -  
 Dates of Survey while building - - May 26, June 16, 24, July 3, 6, 10, 13, 21, 28, 29. *rebuild mast*  
 During erection on board vessel - - Aug 7, 12, 14, 18, 25, 27, 31, Sept. 1, 2, 5, 7, 9.  
 Total No. of visits 22.

Dates of Examination of principal parts - Cylinders 21-7-36 Slides 10-7-36 Covers 10-7-36  
 Pistons 10-7-36 Piston Rods 20-7-36 Connecting rods 28-7-36  
 Crank shaft 10-7-36 Thrust shaft 16-6-36 Intermediate shafts 16-6-36  
 Tube shaft ✓ Screw shaft 24-6-36 Propeller 6-7-36  
 Stern tube 3-7-36 Engine and boiler seatings 25-8-36 Engines holding down bolts 27-8-36  
 Completion of fitting sea connections 3-7-36  
 Completion of pumping arrangements 2-9-36 Boilers fixed 27-8-36 Engines tried under steam 5-9-36  
 Main boiler safety valves adjusted 5-9-36 Thickness of adjusting washers F 3/8" A 5/16" Superheater 7/16"  
 Crank shaft material Steel Identification Mark 764 Thrust shaft material Steel Identification Mark 764  
 Intermediate shafts, material Steel Identification Marks 764 Tube shaft, material ✓ Identification Mark ✓  
 Screw shaft, material Steel Identification Mark 764 Steam Pipes, material S.S. Steel Test pressure 1660 lb Date of Test 31-8-36

Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. *Yes*  
 Have the requirements of the Rules for the use of oil as fuel been complied with ✓  
 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 No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel has been built under special survey and the materials and workmanship are sound and good.  
 It has been satisfactorily fitted on board, tried under steam and found in good condition.  
 It is eligible in my opinion, to have record # L.M.C. 9.36 C.L.

The amount of Entry Fee ... £ 3 : - :  
 Special ... £ 32 : 10 :  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for, 16 SEP 1936  
 When received, 22.9.36

*B. Moffatt*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 25 SEP 1936  
 Assigned *Adm. 9.36*