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LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE.

The following is a true Account of the Particulars of the Machinery and Boilers:—

ENGINES.—Here state description of Engines, whether Direct Acting or Geared, Inverted, Horizontal, Diagonal, or Oscillating Cylinders No. of Cylinders, &c.

Inverted Cylinder, direct acting Compound twin screw Engines, with two high pressure & two low pressure Cylinders

ENGINES, maker of R. Napier Sons
age of new
last time taken out
present condition
Diameter of Cylinders 2 at 30" & 2 at 54"
Length of stroke 3 ft 9 in
No. per minute of Engines about 75
of Screw 75
Estimated power 280 H.P.
Effective power about 1100
Diameter of Screws (or Paddle Wheels) 11 feet
Pitch of Screws 15 feet
No. of Blades (or Floats) 4 in each screw
Description of Screws (or Floats) Griffiths, fixed blades
Holding down Bolts, size 1 1/2" dia
present condition new

Bilge Pumps, No. (4) and size 3' dia. x 14 1/2" choke
Feed ,, No. (4) and size 3' x 14 1/2"
Spare gear, if usual quantity on board Vessel Yes
Fuel, where stowed Fore & aft of Boilers
space between Coal Bunkers and Boilers 7 ft 4 inches
for what quantity is space provided 248 Tons
Donkey Engine and Boiler two Engines & one boiler
if fitted in Engine Room or on Deck Engines in Engine Room Boiler in stoke hole
can pump be worked by hand one of them can be.
size of pump (5-1/2) and stroke 1-1/2
is hose of sufficient length to reach every part of the Vessel Yes
No. (1) and continuation of hand pumps, if fitted in Engine Room Donkey Engine fitted on hand pump & feed boiler, discharge on deck and overboard

BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fired athwartships, or from fore, or after end of Boiler, &c.

Two cylindrical tubular boilers with four furnaces, and fired fore and aft from both ends of Boilers - one vertical single flue Superheater

BOILER, maker of R. Napier Sons
age of new
when last taken out
present condition
working pressure 60 lbs
No. of surface Blow off Cocks to each Boiler one

Can each Boiler be used separately Yes
What clear space between top of Boiler and woodwork 20 inches
What clear space between Funnel and woodwork 26 inches
Are Engine and Boiler Keelsons well connected fore and aft Yes

SCREW SHAFT length 28' 5 1/2" diameter 9 7/8" Tunnel thickness of plating 1/4" + 7/16" height 6 ft
width 4 ft + 4 ft 6" if water-tight door on Engine Bulkhead. Yes

Port Glasgow 30 day of November 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "Meiji Maru" belonging to Japan whereof Brown is Master, 1460 4/16 Tons Register, and 280 H.P. have been carefully inspected and examined by us at Glasgow and we found the same, at this date, in good order and safe working condition.

R. Napier Sons

Marine Engineers.