

REPORT ON MACHINERY.

No. 18466.

Received at London Office 23 DEC 1925

Date of writing Report 18. 12. 1925. When handed in at Local Office 19. 12. 1925. Port of Greenock
No. in Survey held at Port Glasgow Date, First Survey 19/ 8/ 25. Last Survey 12/ 6/ 25. 1925.
Reg. Book. on the SS "MAHOUT" (Number of Visits 4)
Master Built at Port Glasgow. By whom built W. Hamilton & Co. When built 1925.
Engines made at Glasgow By whom made D. Rowan & Co. Glas. when made 1925
Boilers made at " By whom made " when made "
Registered Horse Power " Owners " Port belonging to "
Shaft Horse Power at Full Power " Is Refrigerating Machinery fitted for cargo purposes " Is Electric Light fitted "

TURBINE ENGINES, &c.—Description of Engines

No. of Turbines

Diameter of Rotor Shaft Journals, H.P. " L.P. " Diameter of Pinion Shaft "
Diameter of Journals " Distance between Centres of Bearings " Diameter of Pitch Circle "
Diameter of Wheel Shaft " Distance between Centres of Bearings " Diameter of Pitch Circle of Wheel "
Width of Face " Diameter of Thrust Shaft under Collars " Diameter of Tunnel Shaft " as per rule "
No. of Screw Shafts " Diameter of same " as per rule " as fitted " Diameter of Propeller " Pitch of Propeller "
No. of Blades " State whether Moveable " Total Surface " Diameter of Rotor Drum, H.P. " L.P. " Astern "
Thickness at Bottom of Groove, H.P. " L.P. " Astern " Revs. per Minute at Full Power, Turbine " Propeller "

PARTICULARS OF BLADING.

H.P.

L.P.

ASTERN.

	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
1ST EXPANSION									
2ND									
3RD									
4TH									
5TH									
6TH									
7TH									
8TH									

No. and size of Feed pumps

No. and size of Bilge pumps

No. and size of Bilge suction in Engine Room

In Holds, &c.

No. of Bilge Injections " sizes " Connected to condenser, or to circulating pump " Is a separate Donkey Suction fitted in Engine Room & size "

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are all connections with the sea direct on the skin of the ship YesAre they Valves or Cocks both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel YesAre the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What pipes are carried through the bunkers

How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

plates

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each Boiler

Material

Outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diameter of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates: Thickness

How stayed

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer. _____

Dates of Survey while building { During progress of work in shops - - (1925) Aug 12-19 Sept 2 Oct 1.
During erection on board vessel - - -
Total No. of visits 4

Is the approved plan of main boiler forwarded herewith _____

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Casings _____ Rotors _____ Blading _____ Gearing _____

Rotor shaft _____ Thrust shaft _____ Tunnel shafts _____ Screw shaft _____ Propeller _____

Stern tube _____ Steam pipes tested _____ Engine and boiler seatings 19/8/25. Engines holding down bolts _____

Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam _____

Main boiler safety valves adjusted _____ Thickness of adjusting washers _____

Material and tensile strength of Rotor shaft _____ Identification Mark on Do. _____

Material and tensile strength of Pinion shaft _____ Identification Mark on Do. _____

Material of Wheel shaft _____ Identification Mark on Do. _____ Material of Thrust shaft _____ Identification Mark on Do. _____

Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts _____ Identification Marks on Do. _____

Material of Steam Pipes _____ Test pressure _____

Is an installation fitted for burning oil fuel _____ Is the flash point of the oil to be used over 150°F. _____

Have the requirements of Section 49 of the Rules been complied with _____

Is this machinery a duplicate of a previous case _____ If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, &c. The Propeller, tail shaft, stern tube, sea connections and their fastenings have been well fitted on board the vessel. The vessel has now left for Glasgow for installation of machinery. Glasgow Surveyors notified.

Enclosure - 2 GLS 45250
24/2/25

The amount of Entry Fee ... £	:	:	When applied for,
Special ... £	:	:	19
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19

J. D. Avey
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 22 DEC 1925

Assigned See GL. Rpt. 45250



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