

AUXILIARY

# Report on Steam Turbine Machinery.

No. 5/5

4a.

Date of writing Report 9-1-1956 When handed in at Local Office 9-1-1956 Port of NANTES Received at London Office 11 JAN 1956

No. in Survey held at SAINT NAZAIRE Date, First Survey 16-9-55 Last Survey 18-10-1955

Reg. Book Supp. (Number of Visits 4)

3471 on the Single Screw Vessel S.S. "/SOCARDIA" Tons Gross 20708 Net 10417

built at SAINT NAZAIRE By whom built CH. BAT. DE SAINT NAZAIRE (PENHOET) Yard No. Q15 When built 1955

Engines made at PARIS By whom made MAISON BREGUET Engine No. 2355/6 When made 1955

Boilers made at SAINT NAZAIRE By whom made CH. BAT. DE SAINT NAZAIRE (PENHOET) Boiler No. 1856/1857 When made 1955

Shaft Horse Power { Maximum                      Owners SOCIETE MARITIME SHELL Port belonging to LE HAVRE  
Service                     

N. as per Rule                      Is Refrigerating Machinery fitted for cargo purposes                      Is Electric Light fitted                     

ade for which Vessel is intended                     

## STEAM TURBINE ENGINES, &c.—Description of Engines TWO SETS SINGLE REDUCTION GEARED TURBINES

of Turbines { Ahead                      Direct coupled, single reduction geared } to                      propelling shafts. No. of primary pinions to each set of reduction gearing                       
Astern                      double reduction geared

ect coupled to { Alternating Current Generator                      phase                      periods per second                      rated                      Kilowatts                      Volts at                      revolutions per minute;  
supplying power for driving                      Propelling Motors, Type                     

ed                      Kilowatts                      Volts at                      revolutions per minute. Direct coupled, single or double reduction geared to                      propelling shafts.

TURBINE	H. P.	I. P.	L. P.	ASTERN.
ADING.				
alse { No. of rows <u>                    </u>				
ing { No. of stages <u>                    </u>				
tion { No. of rows in each <u>                    </u>				
ing { stage <u>                    </u>				

ft Horse Power at each turbine { H.P.                      I.P.                      L.P.                      Revolutions per minute, of full power, of each Turbine Shaft { H.P.                      1st reduction wheel                       
I.P.                      main shaft                       
L.P.                     

or Shaft diameter at journals { H.P.                      Pitch Circle Diameter                      1st pinion                      1st reduction wheel                      Width of Face { 1st reduction wheel                       
I.P.                      2nd pinion                      main wheel                      main wheel                       
L.P.                     

tance between centres of pinion and wheel faces and the centre of the adjacent bearings { 1st pinion                      1st reduction wheel                       
2nd pinion                      main wheel                     

ible Pinion { 1st                      Pinion Shafts, diameter at bearings { External 1st {                      2nd {                      diameter at bottom of pinion teeth { 1st                       
ts, diameter { 2nd                      Internal 1st {                      2nd {                     

eel Shafts, diameter at bearings { 1st                      diameter at wheel shroud, { 1st                      Generator Shaft, diameter at bearings                       
main                      main                      Propelling Motor Shaft, diameter at bearings                     

mediate Shafts, diameter { as per rule                      as fitted                      Thrust Shaft, diameter at collars { as per rule                      as fitted                     

Shaft, diameter { as per rule                      as fitted                      Screw Shaft, diameter { as per rule                      as fitted                      Is the { tube } shaft fitted with a continuous liner {                       
as fitted                      as fitted                      as fitted                      as fitted                      screw }

ize Liners, thickness in way of bushes { as per rule                      as fitted                      Thickness between bushes { as per rule                      as fitted                      Is the after end of the liner made watertight in the                       
as fitted                      as fitted                      as fitted                      as fitted                     

eller boss                      If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner                     

the 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-corrosive                     

o liners are fitted, is the shaft lapped or protected between the liners                      Is an approved Oil Gland or other appliance fitted at the after end of the tube                     

t                      If so, state type                      Length of Bearing in Stern Bush next to and supporting propeller                     

eller, diameter                      Pitch                      No. of Blades                      State whether Moveable                      Total Developed Surface                      square feet.

ngle Screw, are arrangements made so that steam can be led direct to the L.P. Turbine                      Can the H.P. or I.P. Turbines exhaust direct to the                     

lenser                      No. of Turbines fitted with astern wheels                      Feed Pumps { No. and size                      How driven                     

ps connected to the Main Bilge Line { No. and size                      How driven                     

st Pumps, No. and size                      Lubricating Oil Pumps, including Spare Pump, No. and size                     

two independent means arranged for circulating water through the Oil Cooler                      Branch Bilge Suctions, No. and size:—In Engine                       
Boiler Rooms                      In Pump Room                     

olds, &c.                      Direct Bilge Suctions to the Engine and/or Boiler Room                     

a Water Circulating Pump Direct Bilge Suctions, No. and size                      Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes                     

s, No. and size                      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                     

e all Sea Connections fitted direct on the skin of the ship                      Are they fitted with Valves or Cocks                     

e they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates                      Are the Overboard Discharges above or below the deep water                     

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

ering plate                      What pipes pass through the bunkers                      How are they protected                     

at pipes pass through the deep tanks                      Have they been tested as per rule                     

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

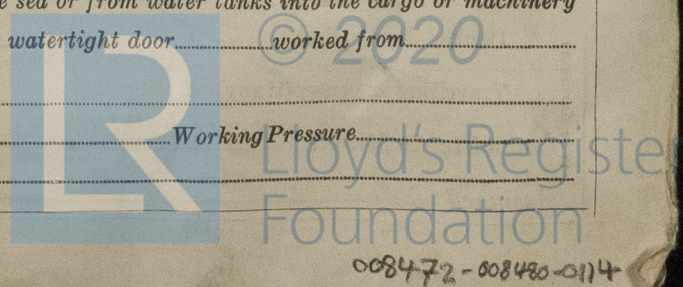
he arrangement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery                     

ces, or from one compartment to another                      Is the Shaft Tunnel watertight                      Is it fitted with a watertight door                      worked from                     

ERS, &c.—Total Heating Surface of Boilers                      Working Pressure                     

orced Draught fitted                      No. and Description of Boilers                     

Report on Main Boilers now forwarded?                     



008472-008480-0114



Is { a Donkey Boiler fitted? If so, is a report now forwarded?  
an Auxiliary }  
Is the donkey boiler intended to be used for domestic purposes only.  
Plans. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers  
(If not, state date of approval)  
Superheaters General Pumping Arrangements Oil Fuel Burning Arrangements  
Geared turbines } Have torsional vibration characteristics of system been approved Date of approval  
situated aft. }

SPARE GEAR.

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

The foregoing is a correct description.

Dates of Survey while building During progress of work in shops - - 16.9.55, 4.10.55, 6.10.55, 18.10.55.  
During erection on board vessel - - 4.  
Total No. of visits.  
Dates of Examination of principal parts—Casings Rotors Blading Gearing  
Wheel shaft Thrust shaft Intermediate shafts Tube shaft Screw shaft  
Propeller Stern tube Engine and boiler seatings Engine holding down bolts  
Completion of fitting sea connections Completion of pumping arrangements Boilers fixed Engines tried under steam  
Main boiler safety valves adjusted Thickness of adjusting washers  
Rotor shaft, Material and tensile strength Identification Mark  
Flexible Pinion Shaft, Material and tensile strength Identification Mark  
Pinion shaft, Material and tensile strength Identification Mark

COPY ATTACHED

; Chemical analysis.  
If Pinion Shafts are made of special steel state date of approval of chemical analyses, physical properties and heat treatment.  
1st Reduction Wheel Shaft, Material and tensile strength Identification Mark  
Wheel shaft, Material Identification Mark Thrust shaft, Material Identification Mark  
Intermediate shafts, Material Identification Marks Tube shaft, Material Identification Marks  
Screw shaft, Material Identification Marks Steam Pipes, Material Test pressure.  
Date of test 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 the Rules for the use of oil as fuel been complied with.  
Full description of Fire Extinguishing Apparatus fitted in machinery spaces.  
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo. 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 a duplicate of a previous case. If so, state name of vessel.

General Remarks. (State quality of workmanship, opinions as to class, &c.) These two sets of auxiliary turbines as described in Roman Rpt. N° FE.25 have been satisfactorily installed on board & hammed under full working conditions with satisfactory results. In my opinion these two turbine sets are eligible to be classed part of the machinery with the notation + LMC 10.55

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

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

FRIDAY 20 JAN 1956

Committee's Minute  
Assigned

