

REPORT ON OIL ENGINE MACHINERY.

No. 7769
23 JUL 1928

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19

Port of

Copenhagen

No. in Survey held at
Reg. Book.

Copenhagen

Date, First Survey 27th October 1927. Last Survey 28th June 1928

Number of Visits 85

42833 on the ^{Single} Twin ^{Triple} ^{Quadruple}

Motor vessel "SUD PACIFICO."

Tons Gross 4838.66
Net 2771.24

Built at Copenhagen By whom built Akt. Burmeister & Wain's Yard No. 547 When built 1928.

Engines made at Copenhagen By whom made Akt. Burmeister & Wain's Engine No. 1449 When made 1928.

Donkey Boilers made at Annan By whom made Cochran & Co. Annan Ltd. Boiler No. 10120 When made 1928.

Brake Horse Power 2400

Owners 7/8 Linea Sud Americana

Port belonging to Oslo, - Norway

Nom. Horse Power as per Rule 534

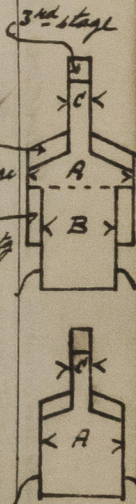
Is Refrigerating Machinery fitted for cargo purposes no.

Is Electric Light fitted yes

Trade for which vessel is intended Between ports of North and South America.

OIL ENGINES, &c.—Type of Engines Vertical Diesel Oil Engines (Cross head type) 2 or 4 stroke cycle 4 Single or double acting Single
Maximum pressure in cylinders 35 kg/cm² Diameter of cylinders 550 mm = 21 5/8" Length of stroke 500 mm = 19 3/4" No. of cylinders 2 x 6 No. of cranks 2 x 6
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 740 mm Is there a bearing between each crank Yes
Revolutions per minute 100 Turning wheel dia. 1652 mm Weight 1100 kg. Means of ignition Air compression Kind of fuel used kerosene
Crank Shaft, dia. of journals as per Rule 374.3 mm Crank pin dia. 380 mm Crank Webs Mid. length breadth 680 mm shrunk Thickness parallel to axis 240 mm
as fitted 380 mm Mid. length thickness 220 mm Thickness around eyehole 184 mm
Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 10.58" Thrust Shaft, diameter at collars as per Rule 11.1" = 281 mm
as fitted 380 mm as fitted 10 5/8" as fitted 380 mm
Tube Shaft, diameter as per Rule Screw Shaft, diameter as per Rule 11.58" Is the screw shaft fitted with a continuous liner yes
as fitted 12" as fitted 12"
Bronze Liners, thickness in way of bushes as per Rule 0.664" Thickness between bushes as per rule 0.5" Is the after end of the liner made watertight in the
as fitted 3/4" as fitted 9/16" The liners are fitted in one length.
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 in one length.
If 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 yes
If two 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 shaft Length of Bearing in Stern Bush next to and supporting propeller 5'0" (Lignum vita)
Propeller, dia. 12'0" Pitch 13'9" No. of blades 4 Material Bronze whether Moveable no Total Developed Surface 45.0 sq. feet
Method of reversing Engines Direct reversible Is a governor or other arrangement fitted to prevent racing of the engine when disengaged yes Means of lubrication
oil lubrication Thickness of cylinder liners 38 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with
non-conducting material Lagged If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine inside the funnel.
Cooling Water Pumps, No. 2 off Centrifugal 120 tons each Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
Bilge Pumps worked from the Main Engines, No. 2 off each engine Diameter of pumps 150 mm Stroke 175 mm Can one be overhauled while the other is at work yes
Pumps connected to the Main Bilge Line No. and Size 1 off ballast pump 150 tons - 2 off bilge and sanitary pumps 20 tons each - 2 off engine bilge and sanitary pumps 20 tons each.
How driven by electric motor - by electric motor - by the main engines.
Ballast Pumps, No. and size 1 off Rotary wing pump 150 tons Lubricating Oil Pumps, including Spare Pump, No. and size 2 off Lock wheel pumps 55 tons each.
Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
Pumps, No. and size:—In Machinery Spaces 3 off 3 1/2" dia & 2 off 3" dia. In tunnel well 1 off 3 1/2" dia. — In F.P.T. & A.P.T. 1 off in each 2 1/2" dia.
In Holds, &c. 1 off 1 1/2" & 2 holds 2 off in each 3 1/2" dia. In 3 & 4 holds 3 off in each 3 1/2" dia. In the double bottom tanks, 4" dia arranged as per approved plan.
Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 off 6" dia and 2 off 5" diam.
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes yes Are the Bilge Suctions in the Machinery Spaces
ed 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 Valves except the donkey boiler
Are they fixed sufficiently 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 yes
That pipes pass through the bunkers No bunkers How are they protected
That 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 yes Is it fitted with a watertight door yes worked from the grating at the
on 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. 2 off No. of stages 3 Diameters 600 - 540 - 120 mm Stroke 440 mm Driven by the main engines.
Auxiliary Air Compressors, No. 3 " No. of stages 3 Diameters 315 - 285 - 78 " Stroke 220 " Driven by the auxiliary engines.
Small Auxiliary Air Compressors, No. 1 " No. of stages 2 Diameters 90 - 35 " Stroke 120 " Driven by hand.
Savenging Air Pumps, No. 1 " Diameter 161.6 mm Stroke 170 mm Driven by
Auxiliary Engines crank shafts, diameter as per Rule 161.6 mm
as fitted 170 mm

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve yes
Are the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces San holes fitted in starting air receiver.
Is there a drain arrangement fitted at the lowest part of each receiver yes Piping arrangement made for cleaning the
High Pressure Air Receivers, No. 3 off 3 1/2" dia. cubic capacity of each 350 Litres Internal diameter 7 1/4" thickness 3/8" 77.1 kg/cm²
Seamless, lap welded or riveted longitudinal joint 3rd lap welded Material S.M. Steel Range of tensile strength 27.3 - 27.2 tons Working pressure by Rules 25.9 kg/cm²
Starting Air Receivers, No. 1 off. Total cubic capacity 800 cubic feet Internal diameter 6'0" and 6'15/16" thickness Ends 1" and 1 1/8" 1/16"
Seamless, lap welded or riveted longitudinal joint 3rd lap welded Material S.M. Steel Range of tensile strength Ends 42.6 - 43.6 - Working pressure by Rules 25.9 kg/cm²



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List of plans forwarded per commercial papers post:

- 2 off. - plans of Crank shaft for main engine, Thrust, Intermediate and Screw shafts.
- 3 " - " of Crank shafts for auxiliary engines.
- 1 " - " of Starting air receiver.
- 1 " - " of Daily service oil fuel tanks.
- 1 " - " of General pumping arrangement.

The foregoing is a correct description,

Manufacturer.

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

Is this machinery duplicate of a previous case Yes If so, state name of vessel M/S. "SUD ATLANTICO." Copenhagen Sept 15/76

State Oil Co. Limited, London, are the

On the trial trip the main engines and the auxiliary machinery have been tested under full power working condition and found to work satisfactorily. — the manœuvring of the main engine tested under working condition and found satisfactory.

The amount of Entry Fee	... 80 ⁴	109.20	When applied for,
Special	... 80 ⁴	1850.94	... 19...
Starting air receiver	... 80 ⁴	76.44	
Donkey Boiler Fee	... 80 ⁴	50.00	When received,
Travelling Expenses (if any)	... 80 ⁴	20.55	15-10-19...
		27	JUL 1928

Assigned

CERTIFICATE WRITTEN.

Steel Twin Screw Motor Vessel "SUD PACIFICO." of Oslo.
Burmister & Wain's Yard N^o 547.
A 42833 — " — " — Engines N^{os} 1448 & 1449.

One - 150 tons rotary ballast pump.
One combined bilge & sanitary pump with 2 separate tanks, each of 26 tons capacity
Two - 120 tons centrifugal cooling water pumps.
Two - 55 tons cog wheel lubricating oil pumps.
One - 30 tons cog wheel oil fuel transfer pump.

} all driven by
electro motors.

One - 15 H.P. shunt wound electro motor working the rotary ballast pump.

One - 9 H.P. " " " " working the combined bidge & sanitary pump.

Two - 30 H.P. " " " " working the cooling water pumps and lubricating oil pumps.

One - 9 H.P. " " " " working the oil fuel transfer pump.

Two - 5 H.P. series " " " working the turning gear to the main engines.

One - 2 H.P. shunt " " " working the lubricating oil purifier.

One - 2 H.P. " " " " working the oil fuel purifier.

One - 2.5 H.P. " " " " working the turning lathe.

One - 1 H.P. " " " " working the drilling machine.

One - 6.5 H.P. " " " " working the machinery for the provision refrigerating appliance.

One - 3 H.P. compound " " " working the cooling water pump to the machinery for the provision refrigerating appliance.

One - 48 H.P. " " " " working the windlass.

Two - 25 H.P. " " " " working the two - 3 tons cargo winches.

Eight - 33 H.P. " " " " working the eight - 5 tons cargo winches.

One - 14 H.P. " " " " working the electro hydraulic steering gear.

One - 0.25 H.P. shunt " " " working the oil fuel blower to the kitchen range in the galley.

One - 9 K.W. electric heater to the lubricating oil purifier.

Manufacturer

A. C. Fuchs.
SURVEYOR TO LLOYD'S
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Foundation