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# REPORT ON OIL ENGINE MACHINERY. No. 20

Received at London Office -9 NOV 1926

...writing Report ... 19... When handed in at Local Office ... 19... Port of Paris

...in Survey held at St. Denis (Seine) Date, First Survey 16-7-24 Last Survey Paris-7-10-25

...Book. Number of Visits 37

...on the ~~Single~~ Twin ~~Triple~~ Screw vessel "THEOPHILE GAUTIER" Tons { Gross ... Net ...

...t at Dunkirk By whom built Ateliers & Chantiers de France Yard No. 132 When built 1926

...ines made at St. Denis (Seine) By whom made Cie de Constructions Mecques Procedes Sulzer Engine No. { 5417-5422 Port 5423-5428 Starb'd When made 1925

...key Boilers made at ✓ By whom made ✓ Boiler No. ... When made ...

...ke Horse Power 4500 Owners Services Contractuels des Messageries Maritimes ...rt belonging to ...

... Horse Power as per Rule 1164. Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted Yes

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... ENGINES, &c.—Type of Engines Diesel 6 ST 60 2 or 4 stroke cycle 2 Single or double acting Single

...mum pressure in cylinders 35 No. of cylinders 6 Diameter of cylinders 600 m/m No. of cranks 8 Length of stroke 1060 m/m

... of bearings, adjacent to the Crank, measured from inner edge to inner edge 790 Is there a bearing between each crank Yes

...utions per minute 110 Flywheel dia. 2100 Weight 12195 Means of ignition ✓ Kind of fuel used ✓

**...k Shaft,** dia. of journals as per Rule ... as fitted 405 m/m Crank pin dia. 405 Crank Webs Mid. length breadth 550 Mid. length thickness 125 shrunk Thickness parallel to axis ✓ Thickness around eyehole ✓

**...heel Shafts,** diameter as per Rule ... as fitted 390 **Intermediate Shafts,** diameter as per Rule ... as fitted ... **Thrust Shaft,** diameter at collars as per Rule ... as fitted 390

**... Shafts,** diameter as per Rule ... as fitted ... **Screw Shaft,** diameter as per Rule ... as fitted ... Is the { tube screw } shaft fitted with a continuous liner { ... }

**...ze 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 ...ler boss ... If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ...

... 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 ...

... liners are fitted, is the shaft lapped or protected between the liners ... Is an approved **Oil Gland** or other appliance fitted at the after ... the tube shaft ... Length of Bearing in **Stern Bush** next to and supporting propeller ...

**...eller,** dia. ... Pitch ... No. of blades ... Material ... whether Moveable ... Total Developed Surface ... sq. feet

**...od of reversing Engines** direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication ...iced Thickness of cylinder liners 45 m/m Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with ...nducting 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 ...

**...ng Water Pumps,** No. 2 - Centrifugal Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

**... Pumps** fitted to the **Main Engines,** No. 2 Diameter 178 Stroke 190 Can one be overhauled while the other is at work Yes

**...s** 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 2 rotative type 20 m³

...o independent means arranged for circulating water through the **Oil Cooler** Yes **Suctions,** connected to both Main Bilge Pumps and Auxiliary Bilge ...s, No. and size:—In Engine and Boiler Room ...lds, &c. ...

**...pendent Power Pump Direct Suctions** to the Engine Room Bilges, No. and size ...

...l the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes ... Are the Bilge Suctions in the Machinery Space ...m easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges ...

**... Sea Connections** fitted direct on the skin of the ship ... Are they fitted with Valves or Cocks ...

...y fixed sufficiently high on the ship's side to be seen without lifting the ~~platform~~ plates ... Are the Overboard Discharges above or below the deep water line ...

...y 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 covering plate ...

...ipes pass through the bunkers ... How are they protected ...

...ipes pass through the deep tanks ... Have they been tested as per Rule ...

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

...rrangement 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 ...tment to another ... Is the Shaft Tunnel watertight ... Is it fitted with a watertight door ... worked from ...

...ood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork ...

**... Air Compressors,** No. 2 No. of stages 3 Diameters 560x510x120 Stroke 350 Driven by Main engine

**...iary Air Compressors,** No. 2 No. of stages 3 Diameters 325x290x65 Stroke 180 Driven by electric Motor

**... Auxiliary Air Compressors,** No. 1 No. of stages 1 Diameters 70 Stroke 80 Driven by " "

**...nging Air Pumps,** No. Centrifugal Type Diameter 1m.300 Stroke ... Driven by " "

**...iary Engines** crank shafts, diameter as per Rule ... as fitted 175

... RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

...e internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surface door on both ends

...e a drain arrangement fitted at the lowest part of each receiver Yes

**... Pressure Air Receivers,** No. 20 Cubic capacity of each 500 ltr Internal diameter 535 m/m thickness 22 m/m

...ss, lap welded or riveted longitudinal joint seamless Material ... Range of tensile strength ... Working pressure by Rules 70 kg/c/m²

**...ng Air Receivers,** No. 2 Total cubic capacity 12 m³ Internal diameter 1220 m/m thickness 27 m/m.

...ss, lap welded or riveted longitudinal joint riveted Material steel plate Range of tensile strength ... Working pressure by Rules 28 kg/c/m²

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

HYDRAULIC TESTS:—

| DESCRIPTION. | DATE OF TEST. | WORKING PRESSURE. | TEST PRESSURE. | STAMPED. | REMARKS. |
|---|---|---|---|---|---|
| Engine Cylinders | 26/2/25 - 1/4/25 | 35 K. | 75 K | M.P. | |
| " " Covers | 6/4/25 - 22/4/25 | | | R. | |
| " " Jackets | 15/5/25 - 19/5/25 | 3 K. | 6 K. | M.P. | |
| " Piston Water Passages | 24/6/25. | 1 K. | 2 K. | M.P. | |
| Main Compressors—1st Stage | 6/3/25 - 26/2/25 | 6 | HO | R. | Tests carried out at Winterthur |
| " 2nd " | - do | 22 | HO | R. | |
| " 3rd " | 19/2/25 | 75 | 150 | R. | |
| Air Receivers-Starting | | | | | |
| " Injection | 21/5/25 | 70 K. | 2000 lbs □" | Lloyd's SVL | Tests carried out at Chesterfield |
| Air Pipes | 10/6/25 - 16/6/25 - 1/9/25 7/10/25 | 70 K. | 150 K. | M.P. on flanges | |
| Fuel Pipes | | | | | Tests carried out at Winterthur. |
| Fuel Pumps | | | | | |
| Silencer | | | | | |
| " Water Jacket | | | | | |
| Separate Fuel Tanks | | | | | |

PLANS. Are approved plans forwarded herewith for Shafting ..... Receivers ..... Separate Tanks .....
(If not, state date of approval)

Donkey Boilers ..... General Pumping Arrangements ..... Oil Fuel Burning Arrangements .....

SPARE GEAR A special list has been approved by London on the 10th October 1924 & 6 Mar. 192
(E) for main and auxiliary engines.

The foregoing is a correct description.

C. DE CONSTRUCTION MECANIQUE — PROCÉDÉS SULZER — 20, Quai de Seine, 20 — St-DENIS — USINE DE St-DENIS

J. Brunel
Manufacturer.

Dates of Survey while building — During progress of work in shops: 1924 : 16/7 - 6/8 - 2/10 - 24/10 - 26/11 - 22/12 - 29/12 - 1925 : 26/2 - 6/3 - 13/3 - 1/4 - 6/4 - 22/4 - 15/5 - 19/5 - 10/6 - 24/6 - 30/6 - 10/7 - 23/7 - 1/9 - 3/9 - 18/9 - 22/9 - 2/10 - 7/10.
During erection on board vessel: - - -
Total No. of visits .....

Dates of Examination of principal parts—Cylinders 22/12/24 29/12/24 Covers 26/2/24 Pistons ..... Rods ..... Connecting rods .....

Crank shaft 2/10/24 - 26/11/24 23/7/25 - 2/10/25 7/10/25 Flywheel shaft 2/10/24 26/11/24 23/7/25 2/10/25 7/10/25 Thrust shaft ..... Intermediate shafts ..... Tube shaft .....

Screw shaft ..... Propeller ..... Stern tube ..... Engine seatings ..... Engines holding down bolts .....

Completion of fitting sea connections ..... Completion of pumping arrangements ..... Engines tried under working conditions .....

Crank shaft, Material Annealed Siemens-martin Ingot Steel Identification Mark CRH 1481 - 1483 1421 - 1422 Flywheel shaft, Material S.M. Ingot Steel Identification Mark CRH 1419 1420.

Thrust shaft, Material ..... Identification Mark ..... Intermediate shafts, Material ..... Identification Marks .....

Tube shaft, Material ..... Identification Mark ..... Screw shaft, Material ..... Identification Mark .....

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

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

General Remarks (State quality of workmanship, opinions as to class, &c.

Bench trials have been carried out for the auxiliary Engines on the 13/3/25 - 6/4/25 - 3/9/2
" " " " " " " main Engines 9/7/25 - 10/7/25 - 11/9/25 - 18/9/25 - 19/9/25 - 22/9/2
The working parts of the Engines have been examined after overhauling and found in good condition. The general workmanship is very good.

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

The amount of Entry Fee ... £ fee : : When applied for, ..... 19 .....
Special ... £ 23359.70 : : Please see Secretary's letter C4. 17th Dec. 1926
Donkey Boiler Fee ... £ : : When received, Dec 15 19 25
Travelling Expenses (if any) fee 500 :

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 4th JAN 1927

Assigned Sea Dnk. F.E. apl. 2760

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