

Provisional Report - actual report will be sent in a few days when signed by Messrs Tosi

4b.

REPORT ON OIL ENGINE MACHINERY.

No. 8547

REMARKS. Writing Report 11/11 1922 When handed in at Local Office 11/11 1922 Port of Genoa (LEGNANO 29/6/22) Received at London Office (LEGNANO 6/4/23) 19
Survey held at Legnano, Date, First Survey Last Survey
Number of Visits LEGNANO 21
on the Single } Screw vessels
Twin }
Triple }
Built at Harlepool By whom built Yard No. When built
By whom made Richardson Westfirth Engine No. 25524 When made 1923
Boilers made at By whom made Boiler No. When made
Horse Power 2400 (1200 per engine) Owners Port belonging to
Horse Power as per Rule 553 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Type of Engines Tosi Diesel (N6 type) 2 or 4 stroke cycle 4 Single or double acting Single
Mean pressure in cylinders 500 lb No. of cylinders Twelve No. of cranks 12 6 per engine Diameter of cylinders 620 mm = 24 7/8"
of stroke 975 mm = 38 3/8" Revolutions per minute 125 Means of ignition Compression - Air Kind of fuel used
Span of bearings (Page 92, Section 2, par. 7 of Rules)
Is a flywheel fitted Diameter of crank shaft journals as per Rule as fitted
Breadth of crank webs as per Rule as fitted Thickness of ditto as per Rule as fitted
Diameter of tunnel shaft as per Rule as fitted Diameter of thrust shaft as per Rule as fitted
Is the screw shaft fitted with a continuous liner the whole length of the stern tube
If the liner is in more than one length are the joints burned
If without liners, is the shaft arranged to run in oil
Length of stern bush Diameter of propeller
No. of blades state whether moveable Total surface square feet
Is a governor or other arrangement fitted to prevent racing of the engine when declutched Thickness of cylinder liners 50% average
Means of lubrication forced Are the exhaust pipes and silencers water cooled or lagged with
If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine
No. of cooling water pumps Is the sea suction provided with an efficient strainer which can be cleared
No. of bilge pumps fitted to the main engines Diameter of ditto Stroke
No. of auxiliary pumps connected to the main bilge lines How driven
No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room
No. of ballast pumps How driven Sizes of pumps
Is a separate auxiliary pump suction fitted in
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
Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates
Are they each fitted with a discharge valve always accessible on the plating of the vessel
Are the bilge suction pipes, cocks and valves arranged so as to prevent any
Is the screw shaft tunnel watertight Is it fitted with a watertight door
If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork
No. of stages 3 Diameters 620 x 575 x 135 Stroke 300 mm Driven by DIRECT COUPLED TO MAIN ENGINE
No. of stages Diameters Stroke Driven by
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Diameter Stroke Driven by
Are the air compressors and their coolers made so as to be easy of access Yes

RECEIVERS:—No. of high pressure air receivers Internal diameter Cubic capacity of each
Seamless, lap welded or riveted longitudinal joint Range of tensile strength
No. of starting air receivers Internal diameter
Seamless, lap welded or riveted longitudinal joint
Working pressure by rules Is each receiver, which can be isolated,
Can the internal surfaces of the receivers be examined What means are provided for cleaning their
Is there a drain arrangement fitted at the lowest part of each receiver

009924 - 009933 - 0195

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 <i>LINERS</i>	<i>12/7/23 & Previous dates</i>	<i>500 lb</i>	<i>6kg jacket</i>	<i>PTB 6kg - DATE</i>	<i>Plain Form - Safe</i>
" " COVERS	<i>10/3/23</i>		<i>6kg</i>	" "	
" " JACKETS	<i>12/7/23</i>		<i>6kg</i>	" "	
" PISTON WATER PASSAGES	<i>10/3/23</i>		<i>6kg</i>	" "	
MAIN COMPRESSORS—1st STAGE	<i>29/3/23</i>	<i>70kg</i>	<i>150kg</i>	<i>150</i>	<i>Each Compressor</i>
" 2nd "	<i>29/3/23</i>	<i>16kg</i>	<i>50</i>	<i>60</i>	<i>Completion run</i>
" 3rd "	<i>6/4/23</i>	<i>4kg</i>	<i>10</i>	<i>10</i>	<i>for at least 60 h</i>
AIR RECEIVERS—STARTING					<i>working completely</i>
" INJECTION					
AIR PIPES					
FUEL PIPES					
FUEL PUMPS					
SILENCER					
" WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for shafting
(If not, state date of approval)

Receivers

Separate Tanks

SPARE GEAR *See list attached*

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

Dates of Examination of principal parts—Cylinders *12/7/23* Covers *10/3/23* Pistons *10/3/23* Rods Connecting rods
Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller Stern tube Engine seatings
Engines holding down bolts Completion of pumping arrangements Engines tried under working conditions
Completion of fitting sea connections Stern tube Screw shaft and propeller
Material of crank 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.

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

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *"PINZON"*

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

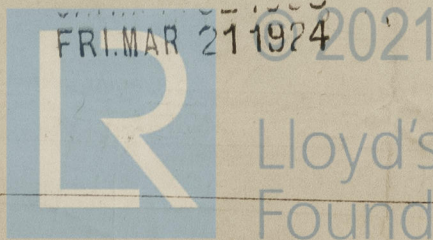
The amount of Entry Fee ... £
Special ... £
Donkey Boiler Fee ... £
Travelling Expenses (if any) £
When applied for, 19
When received, 19

Committee's Minute

Assigned

TUE. 26 FEB. 1924

Alex Lawrence for self P.T.
Engineer Surveyor to Lloyd's Register of Shipping



Lloyd's Register Foundation