

## REPORT ON OIL ENGINE MACHINERY.

No. 19475

21 AUG 1953

Received at London Office

28-7 1953. When handed in at Local Office 14/8/53 Port of GENOA

old at TURIN Date, First Survey 16-9-52. Last Survey 24-4-1953

Number of Visits 25

Screw vessel MESSRS CANTIERI PELLEGRINO - NAPLES - YARD NO CP 94 Tons Gross Net

NAPLES By whom built COSTRUZIONE CANTIERI NAVALI PELLEGRINO Yard No. CP 94 When built

TURIN By whom made MESSRS FIAT S.G.M. Engine No 3436 When made 1953

at GENOA By whom made SOL. ANON. COOPERATIVA DI PRODUZIONE Boiler No When made 1953

1050 Owners Port belonging to

Rule 210 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Is intended

Type of Engines B366 AIRLESS INJECTION 2 or 4 stroke cycle 2 Single or double acting SINGLE

cylinders 60 Kg/cm<sup>2</sup> Diameter of cylinders 360 mm Length of stroke 650 mm No. of cylinders 6 No. of cranks 66.2 Kg/cm<sup>2</sup> Ahead Firing Order in Cylinders 1, 6, 2, 4, 3, 5 Span of bearings, adjacent to the crank, measured

inner edge 504 mm Is there a bearing between each crank YES Revolutions per minute 240

Weight 1055 Kg Moment of inertia of flywheel (lb.in<sup>2</sup> or Kg.cm<sup>2</sup>) 4118.2 Means of ignition COMP Kind of fuel used DIESEL

dia. of journals as per Rule AS APP Crank pin dia 250 mm Crank webs Mid. length breadth 396 mm Thickness parallel to axis 148 mm

as fitted 250 mm Mid. length thickness 148 mm shrunk Thickness around eye-hole 130 mm

meter as per Rule AS APP Intermediate Shafts, diameter as fitted 193 mm Thrust Shaft, diameter at collars as fitted 250 mm

as per Rule AS APP Screw Shaft, diameter as fitted 194 mm As the tube shaft fitted with a continuous liner YES

thickness in way of bushes as per Rule Thickness between bushes as fitted Is the after end of the liner made watertight in the

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

It 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-

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

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

Pitch VAR No. of blades 3 Material whether moveable No Total developed surface 2.68 sq. feet

of propeller (lb.in<sup>2</sup> or Kg.cm<sup>2</sup>) 5488.5 Kind of damper, if fitted

Engines DIRECT Is a governor or other arrangement fitted to prevent racing of the engine when decoupled YES Means of

Thickness of cylinder liners 20 mm Are the cylinders fitted with safety valves YES Are the exhaust pipes and silencers water cooled

conducting material If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

led from the Main Engines, No. 1 Diameter 100 mm Stroke 120 mm Can one be overhauled while the other is at work

to the Main Bilge Line No. and size How driven

led to the bilges If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

and size Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1 @ 44 mc/hr

at means arranged for circulating water through the Oil Cooler Suctions, connected to both main bilge pumps and auxiliary

nd size: In machinery spaces In pump room

er Pump Direct Suctions to the engine room bilges, No. and size

suction pipes in holds and tunnel well fitted with strum-boxes Are the bilge suction in the machinery spaces led from easily

tees, placed above the level of the working floor, with straight tail pipes to the bilges

suctions fitted direct on the skin of the Ship Are they fitted with valves or cocks Are they fixed

the ship's side to be seen without lifting the platform plates Are the overboard discharges above or below the deep water line

d 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

through the bunkers How are they protected

through the deep tanks Have they been tested as per Rule

s, valves and pumps in connection with the machinery and all boiler mountings accessible at all times

t 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

e compartment to another Is the shaft tunnel watertight Is it fitted with a watertight door worked from

that means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

essors, No No. of stages diameters stroke driven by

mpressors, No No. of stages diameters stroke driven by

Air Compressors, No No. of stages diameters stroke driven by

made for first charging the air receivers

umps, No 1 diameter 850 mm stroke 540 mm driven by MAIN ENGINE

e crank shafts, diameter as per Rule No Position

y engines been constructed under special survey Is a report sent herewith

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Foundation



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AIR RECEIVERS:—Have they been made under survey.....YES..... State No. of report or certificate.....21

Is each receiver, which can be isolated, fitted with a safety valve as per Rule.....YES.....

Can the internal surfaces of the receivers be examined and cleaned.....YES..... Is a drain fitted at the lowest part of each receiver.....

Injection Air Receivers, No..... Cubic capacity of each..... Internal diameter..... thickness.....

Seamless, welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working Report.....

Starting Air Receivers, No.....3..... Total cubic capacity.....3000 Lit..... Internal diameter.....50 1/2"..... thickness.....

Seamless, welded or riveted longitudinal joint.....SEAMLESS..... Material.....SM STEEL..... Range of tensile strength.....50/60 kg/cm<sup>2</sup>..... Working Report.....

IS A DONKEY BOILER FITTED.....2 OFF..... If so, is a report forwarded.....YES.....

Is the donkey boiler intended to be used for domestic purposes only.....NO.....

PLANS. Are approved plans forwarded herewith for shafting.....17-11-52..... Receivers.....19-7-48.....

Donkey boilers.....15-11-52..... General pumping arrangements..... Pumping arrangements in machinery space.....

Oil fuel burning arrangements.....

Have Torsional Vibration characteristics been approved.....YES..... Date of approval.....4-5.....

### SPARE GEAR.

Has the spare gear required by the Rules been supplied.....YES.....

State the principal additional spare gear supplied.....TO BE SUPPLIED ON BOARD.....

### FIAT

STABILIMENTO GRANDI MOTORI

The foregoing is a correct description,

Manufacturer.....

Dates of Survey while building.....

During erection on board vessel.....

Total No. of visits.....25.....

Dates of examination of principal parts—Cylinders.....19/9/52..... Covers.....11-12-52..... Pistons.....9-12-52..... Rods.....

Crank shaft.....13-11-53..... Flywheel shaft..... Thrust shaft.....AS CRANKSHAFT..... Intermediate shafts.....

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

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

Crank shaft, material.....EF STEEL..... Identification mark.....LLOYDS..... Flywheel shaft, material..... Identification.....

Thrust shaft, material.....EF STEEL..... Identification mark.....AS CRANKSHAFT..... Intermediate shafts, material..... Identification.....

Tube shaft, material..... Identification mark..... Screw shaft, material..... Identification mark.....

Identification marks on air receivers.....LLOYDS.....

Welded receivers, state Makers' Name.....

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

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with.....

Description of fire extinguishing apparatus fitted.....

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 duplicate of a previous case.....YES..... If so, state name of vessel.....CANT. NAV. GIULIANO S.....

General Remarks (State quality of workmanship, opinions as to class, &c.).....This engine has been built under special supervision in accordance with the Society's Rules, Secretary's letters & approved plans. Materials and workmanship are of the best and has been examined under full power during test bed trials & found satisfactory. The torsional characteristics have been approved for a service speed of 240 r.p.m. provided a temporary notice is issued from the control station stating that the engine is not to be operated continuously between 95 & 116 r.p.m. & the engine is to be marked accordingly also torsionograph records be taken from the completed installation & forwarded for final consideration for limits of restricted speed range. The engine has now been dispatched to the installation in the vessel. After installing & testing under full power to the satisfaction of the Surveyor to this effect the requirements carried out the engine will be in my opinion eligible to have record of R.L.M.C. (with date) made in the Register Book of the Society.

The amount of Entry Fee.....£4. 208.800=.....

Special CHAR FUND.....£4. 3550=..... When applied for.....16/6/.....1953.....

Donkey Boiler Fee.....£..... When received.....7/8/.....1953.....

Travelling Expenses (if any).....£4. 29493=.....

Committee's Minute.....REV. TAX. £4. 6316=.....

Assigned.....See Rpt. &c.....