

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

held 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 MESSAS FIAT S.C.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 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

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

6 cylinders 6.0 Kg/cm² Diameter of cylinders 360 mm Length of stroke 650 mm No. of cylinders 6 No. of cranks 6

6.2 Kg/cm² 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.in² or Kg.cm²) 4118.2 Means of ignition COMP Kind of fuel used DIESEL

dia. of journals as per Rule AS APP as fitted 250 mm Crank pin dia 250 mm Crank webs Mid. length breadth 396 mm Thickness parallel to axis 148 mm shrunk Mid. length thickness 148 mm Thickness around eye-hole 130 mm

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

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

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

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

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

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

of propeller (lb.in² or Kg.cm²) 5488.5 Kind of damper, if fitted

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

th 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

rk through the bunkers How are they protected

of 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

hat 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

er 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 as fitted Position

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

JM
14
9
53

003357-003368-0102

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(Seal of the Society)

AIR RECEIVERS:—Have they been made under survey... YES. State No. of report or certificate. 2

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 r...

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 50/60/80 Working

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,

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	Covers	Pistons	Rods	Manufacturer
	Sept 1952. 16, 20, 30	Oct 1952 10, 14, 17, 24, 24	25	19/9/52	3/10/52	30-11-52	11-12-52	18-11-52	DEC 52
									JAMES
									FEB 53
									MARCH
									16, 20

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

Crank shaft, material EF STEEL Identification mark LLOYDS F.B.G. 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

Identification marks on air receivers LLOYDS 2, 71265 & 2, 71267

Welded receivers, state Makers' Name G.M. 27/12/52 - 30/1/53

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 compl

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

accordance with the Society Rules, Secretary's letters & approved plans. Materials and workmanship are

has been examined under full power during test bed trials & found satisfactory. The torsion

characteristics have been approved for a service speed of 240 r.p.m. provided a temporary notice

the control station stating that the engine is not to be operated continuously between 95 & 116 r.p.m. & the

marked accordingly also torsiongraph records be taken from the completed installation & forward

for final consideration for limits of restricted speed range. The engine has now been dispatched

installation in the vessel. After installing & testing under full power to the satisfaction of the Surveyor to this

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. 208.80 = £4. 177.480 =

Special CHAR FUND ... £4. 3.550 = When applied for 16/6/ 19 53

Donkey Boiler Fee... £ When received 7/8/ 19 53

Travelling Expenses (if any) £4. 29.493 =

Committee's Minute REV. TAX. £4. 63/6 =

Assigned See Rpt. at C.

J. Bray Engineer Surveyor to Lloyd's Register Foundation



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Certificate (if required) to be sent to Committee's Minute

Certificate (if required) to be sent to