

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13245

Received at London Office

Date of writing Report 17.3.49 when handed in at Local Office 24.3.49 Port of TRIESTE
No. in Survey held at TRIESTE Date, First Survey SEE Rpt. 4b. Last Survey 19
Reg. Book. Number of Visits

5603 on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel M/v. "Port Said" Tons { Gross ✓ Net ✓

Built at Trieste By whom built Cant. Rivu. dell' Adriatico Yard No. 1747 When built 1949
Owners Mistr Navigation Co. Port belonging to Alexandria

Oil Engines made at Trieste By whom made Cant. Rivu. dell' Adriatico Contract No. 5483/4/5 When made 1949

Generators made at Moulfalcone By whom made do Contract No. When made 1949

No. of Sets 3 Engine Brake Horse Power 224 each Nom. Horse Power as per Rule 74 each Total Capacity of Generators 450 Kilowatts.

OL ENGINES, &c.—Type of Engines DIESEL-SULZER 3 RK 30 2 or 4 stroke cycle 2 ✓ Single or double acting 5.A.

Maximum pressure in cylinders 55 kg/cm² Diameter of cylinders 300 mm Length of stroke 400 mm No. of cylinders 3 ✓ No. of cranks 3

M.P.P. app. = 4.65 kg/cm² span of bearings, adjacent to the Crank, measured from inner edge to inner edge 345 mm 364 mm Is there a bearing between each crank yes ✓

Revolutions per minute 320 ✓ Flywheel dia. 1500 mm Weight 2960 kg Means of ignition compr. Kind of fuel used heavy oil

Crank Shaft, dia. of journals as per Rule 170 mm ✓ as fitted Crank pin dia. 170 mm Crank Webs Mid. length breadth 250 mm ✓ Thickness parallel to axis ✓
Mid. length thickness 90 mm ✓ Thickness around eyehole ✓

Flywheel Shaft, diameter as per Rule 180 mm ✓ as fitted Intermediate Shafts, diameter as per Rule ✓ as fitted Thickness of cylinder liners 22 mm.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes ✓ Means of lubrication forced

Are the cylinders fitted with safety valves yes ✓ Are the exhaust pipes and silencers ~~water cooled~~ lagged with non-conducting material yes

Cooling Water Pumps, No. 1 of 10 Tons/h. Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size 1 of rotary type

Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

Scavenging Air Pumps, No. 2 Diameter 320 mm Stroke 131 Driven by engine

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

Can the internal surfaces of the receivers be examined ✓ What means are provided for cleaning their inner surfaces ✓

Is there a drain arrangement fitted at the lowest part of each receiver ✓

High Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓

Seamless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

Starting Air ^{bottles} Receivers, No. 2 Total cubic capacity 340 litres Internal diameter 452 mm thickness 9 mm.

Seamless, lap welded or riveted longitudinal joint seamless Material steel Range of tensile strength 55 kg/mm² Working pressure by Rules ✓

ELECTRIC GENERATORS:—Type C 640 protected - self ventilated

Pressure of supply 220 volts. Load 682 Amperes. Direct or Alternating Current D.C.

Is an alternating current system, state frequency of periods per second ✓

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes ✓

Generators, do they comply with the requirements regarding rating yes ✓ are they compound wound yes ✓

Are they ^{flat} ~~over~~ compounded ~~over~~ yes ✓, if not compound wound state distance between each generator ✓

Is an adjustable regulating resistance fitted in series with each shunt field yes ✓ Are all terminals accessible, clearly marked, and furnished with sockets yes ✓

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes ✓ Are the lubricating arrangements of the generators as per Rule yes ✓

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

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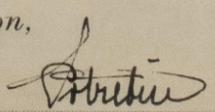
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Torsional vibration characteristics approved with Secretary's letter 26.8.47 for 320 rpm.

The foregoing is a correct description,
Cantieri Riuniti Dell' Adriatico
(FABBRICA MACCHINE S. ANDREA)  Manufacturer.

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

See Rpt. 4b

Dates of Examination of principal parts—Cylinders 1/16-11-48 Covers 1/16-11-48 Pistons 1/16-11-48 Piston rods 1/16-11-48

Connecting rods 1/16-11-48 Crank and Flywheel shaft 1/16-11-48 Intermediate shaft ✓
 Crank and Flywheel shafts, Material S.M.S. 44-50 Kgunni Identification Mark Lloyd's { R. 32 A.G. 20.5.48
 753 G.M. 20.9.47
 754 A.G. 20.10.47

Intermediate shafts, Material ✓ Identification Marks
 Is this machinery duplicate of a previous case yes If so, state name of vessel "Star of Suez" Yard N° 1742

General Remarks (State quality of workmanship, opinions as to class, &c.)
 These engines have been constructed under special survey in accordance with the Secretary's letters and approved plans.-
 All important forgings have been tested at the steel works and the materials and workmanship are good.-
 The engines have been fitted on board in an efficient manner and found satisfactory when tested under full working conditions.-
 In our opinion they are eligible for classification.-

In 928—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... Live 213.120. ✓
 Travelling Expenses (if any) £ : ✓

When applied for,	✓	19
When received,	✓	19

John M'Gee
 Surveyor to Lloyd's Register of Shipping.
Sergio Belari

Committee's Minute **FRI 29 APR 1949**
 Assigned *Lu F.E. Welch. opt.*