

Rpt. 4c

23 AUG 1957

Date of writing report 10/8/1957

Received London

Port of Milan

No. 5

Survey held at LEGNANO

No. of visits 33

First date 16.7.1956 Last date 13.5.57

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM
RECIPROCATING ENGINESName of Ship CANTIERI RIUNITI DELL'ADRIATICO Yard 1823 Owners -
(Or Contract No. if name unknown) (Or Consignees) TICO

Ship Built at TRIESTE (S.Marco) by CANTIERI RIUNITI DELL'ADRIA= when 1957 Yard No. 1823

Auxiliary turbines or engines made at LEGNANO by FRANCO TOSI S.p.A. when 1957 Eng. Nos 3976-3977

Total No. of sets and description Two: Turbo Generator sets - Each consisting of a steam turbine driving
a 450 KW direct current generator through a single reduction gearing 8000/800 R.p.M.STEAM TURBINES. No. of turbines per set One BHP per set 450 KW. Steam pressure 39 Kg/cm² Steam temperature 445°C.

Type of turbines RC.7390 Tosi - Westinghouse - Impulse type = 9 rows of bladings - horizontal shaft

Particulars of gearing Double Helic - Single reduction gearing

RPM of turbine shaft(s) 8000/1' PCD of pinion(s) 4.73 in. PCD of wheels(s) 47.3 in. Material of

pinion(s) Gr. Ni. Mo. Steel Material of wheel ~~xxxx~~ S.M. Steel Has rotor been dynamically balanced? Yes Diameter of rotor

shaft at bearings 90 mm. Does the set Include a steam condenser? Yes Is an emergency governor fitted? Yes No. and purpose of

attached pumps One: Lubricating oil pump Has the set been tested in the shop? Yes If so, for how long at full

power? 4 hours Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? Yes

Identification marks See separate attached sheet Particulars of driven machinery for each set:

ONE DIRECT CURRENT GENERATOR RATED: 450 KW. - 220 V. 2045 A. 800 r.p.m.

STEAM RECIPROCATING ENGINES. BHP of each at RPM Steam pressure

Dia. of cylinders Stroke Dia. of crankshaft journals Pins Material of

crankshaft Is crankcase enclosed? If so, is the internal volume 20 cu. ft. or over? No. and total area of crankcase

explosion relief devices fitted? Are the bearings forced lubricated? No. and Purpose of attached pumps

Is a Governor Fitted? Identification Marks

Particulars of Driven Machinery

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Trieste Office

For generators under 100 Kw., has Makers' Certificate been obtained? - Are Certificates attached? No

The foregoing description is correct.

Manufacturer

FRANCO TOSI

Is this machinery duplicate of a previous case? No. If so, which?

GENERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters.
State quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

These sets have been constructed under special survey of tested materials and in accordance with the approved plans, Secretary's letters and Rule Requirements.- All parts subjected to internal pressure have been examined under hydraulic test to Rule Requirements and found sound and satisfactory. The Turbine rotors, blading and reduction gearing have been examined on completion and found, so far as could be seen, sound and free from defects. Rotors Pinions and gear wheels were statically and dynamically balanced with satisfactory results. The materials and workmanship are good. These sets have been examined under steam in shop running at full power. The governor and the emergency governors were tried in operation with satisfactory results. These sets have been despatched to Trieste, to be fitted aboard the yard 1823 of Messrs. CANTIERI RIUNITI DELL'ADRIATICO.

Survey Fee Lit. 126.000 Len 15% = Lit. 107.100
CAR Fund. " 2.142
Expenses OFF. " 13.923
REVENUE TAX " 3.695
Date when a/c rendered 21-8-57

(D. Cecchi)

Engineer Surveyor to Lloyd's Register

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the
at in a proper manner and found satisfactory when tested on the (date) under full working
conditions.

Engineer Surveyor to Lloyd's Register

010451-010460-009174

