

Rpt. 4c

Date of writing report 6/12 1958 Received London Stockholm Port No. 11816  
Survey held at Stockholm No. of visits 5 First date 25.6.1958 Last date 4.10.1958.

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM RECIPROCATING ENGINES

Name of Ship (Or Contract No. if name unknown) Owners (Or Consignees)  
Ship Built at Rijeka by Brodogradiliste 3.Mai when Yard No. 460  
Auxiliary turbines or engines made at Finspong by STAL when 1958 Eng. Nos. B.7030.3064  
Total No. of sets and description One axial FLOW turbine with one CURTIS WHEEL, intended for driving one Butterworth pump on the above ship.

STEAM TURBINES. No. of turbines per set 1 BHP per set 80 Steam pressure 40 kg/cm<sup>2</sup> Steam temperature 280°C.  
Type of turbines STAL N75A  
Particulars of gearing None  
RPM of turbine shaft(s) 3050 PCD of pinion(s) PCD of wheel(s) Material of Rotor shaft  
pinion(s) El. steel Material of wheel rim(s) Has rotor been dynamically balanced? No Diameter of rotor shaft at bearings 40.0 and 50.0 mm Does the set include a steam condenser? No Is an emergency governor fitted? Yes No. and purpose of attached pumps None Has the set been tested in the shop? Yes If so, for how long at full power? 2 hrs. Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? See below  
Identification marks Particulars of driven machinery The turbine tested attached to one generator belonging to the Works testing equipment.

11.12.58

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  
For generators under 100 Kw., has Makers' Certificate been obtained? Are Certificates attached?

The foregoing description is correct. SVENSKA TURBIN AKTIEBOLAGET LJUNGSTRÖM  
Manufacturer

Is this machinery duplicate of a previous case? Yes If so, which? Engine No. B-7030.3063

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.  
This turbine has been constructed and manufactured in accordance with the Rules, approved plans and the Secretary's letter. The turbine has been examined under working condition, partly loaded (25 BHP) and over-speed and governing tests carried out with satisfactory results. The material and workmanship are good. This turbine set is eligible, in my opinion, to be good for the purpose intended, when set has been installed and tested under full working power to satisfaction of the Society's Surveyors.  
This turbine is to the order of Messrs. A/B de Laval's Ångturbin, of Stockholm.

Survey Fee Kr. 150:-- Expenses Kr. 71:-- Date when a/c rendered 6/12 1958.  
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 t.t. "TRUD" at Rijeka in a proper manner and found satisfactory when tested on the (date) 28/10/60 under full working conditions.

Lloyd's Register Foundation  
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