

Rpt. 4c

Date of writing report 3rd April, 1964.

Received London

Port GENOA

No.

28944

Survey held at GENOA

No. of visits 6

First date 18/7/1963

Last date 19/12/1963

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM RECIPROCATING ENGINES

Name of Ship "FEDOR POLETAEV"
(Or Contract No. if name unknown)

Owners BLACKSEA STATE STEAMSHIP LINES, USSR.
(Or Consignees)

Ship Built at GENOA SESTRI by ANSALDO S.A. CANTIERE NAVALE when 1963 Yard No. 1594

Auxiliary turbines or engines made at GENOA SAMPIERDARE by ANSALDO S.A. STABILIMENTO MECCANICO when 1963 Eng. Nos. 1763

Total No. of sets and description One 450 kW generator set consisting of one steam turbine driving a 562.5 kVA alternator through single reduction gearing.

STEAM TURBINES. No. of turbines per set one BHP per set 612 Steam pressure 12 Kg/cm² or 8 Kg/cm² Steam temperature saturated or 205°C

Type of turbines one single row impulse wheel followed by fifteen reaction stages

Particulars of gearing single reduction double helical gearing

RPM of turbine shaft(s) 9331 PCD of pinion(s) 108.832 PCD of wheel(s) 720.542mm. Material of pinion(s) Ni-Cr-Mo steel Material of wheel rim(s) C.V. steel Has rotor been dynamically balanced? Yes Diameter of rotor shaft at bearings 60mm. 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 one hour Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? Yes

Identification marks Turbine rotor P5 BT 3/10/63-LLOYD'S GEN. Particulars of driven machinery 450 kW (.8PF) 400V, 50H², 1500 RPM, ANSALDO SAN GIORGIO No. 500292
Pinion P10A BT 3/10/63 LLOYD'S GEN.
Gear wheel rim P1 BT 29/8/63 LLOYD'S GEN.
Gear wheel shaft P48 BT 29/8/63 LLOYD'S GEN.

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 GENOA CERT. NO. M. 6878

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

The foregoing description is correct.

Manufacturer ANSALDO S.p.A. STABILIMENTO MECCANICO

Is this machinery duplicate of a previous case? Yes If so, which? ANSALDO SESTRI YARD NO. 1593-m.v. "LEONARDO DA VINCI"

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 turbogenerator has been manufactured under special survey of tested materials and is in accordance with the approved plans, Secretary's letters and Rule requirements. The materials and workmanship are good. The turbogenerator has been tested in the shop under full working conditions with satisfactory results. Upon completion of shop trials the turbine has been opened up and the parts examined found to be in good condition.

Survey Fee Lit. 74.375

Expenses Lit. 200

Date when a/c rendered 18/12/1963

(B.S. THOMPSON & S. GASPERINI)

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 "FEDOR POLETAEV" Yard No. 1594. at ANSALDO S.A. CANTIERE NAVALE, GENOA/SESTRI in a proper manner and found satisfactory when tested on the (date) 24/3/64 under full working conditions.

(S. DINNEN)

Engineer Surveyor to Lloyd's Register