

Rpt. 4c

Date of writing report 29-11-57 Received London 2-DEC 1957 Port of Stockholm No. 11309  
Survey held at Stockholm No. of visits 9 First date 27th Feb. 1958 Last date 25th Sept. 1957

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM RECIPROCATING ENGINES

Name of Ship - Owners -  
(Or Contract No. if name unknown) (Or Consignees)  
Ship Built at Gothenburg by A/B Götaverken when 1957 Yard No. 716  
Auxiliary turbines or engines made at Stockholm by A/B de Laval's Ångturbin when 1957 Eng. Nos. 44328  
Total No. of sets and description One impulse turbine driving an electric generator through double-helical single reduction gearing.

STEAM TURBINES. No. of turbines per set 1 BHP per set 680 Steam pressure 30 kg/cm<sup>2</sup> Steam temperature 400° C  
Type of turbines Impulse.  
Particulars of gearing Double-helical single reduction, direct coupled.  
RPM of turbine shaft(s) 12995 PCD of pinion(s) 94.685 m/m PCD of wheels(s) 1025.373 m/m Material of pinion(s) Electro Steel Material of wheel rim(s) Electro Steel Has rotor been dynamically balanced? Yes Diameter of rotor shaft at bearings 49.75 m/m Does the set include a steam condenser? No 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? 26 hours Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? yes  
Identification marks Rotor:- No. 9013 SKM IL 5.6.57 Particulars of driven machinery A.C. Generator driven through single reduction gearing at 1200RPM and developing 630 kW.  
Pinion: No. 3667 SKM WL 22.5.57  
Wheel Rim: No. 1180 SKM IL 5.6.56  
Turbine Casing: No. 4343 LR 20.9.56

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 Stockholm Cert. No. ASEA Gen. No. 4795344.  
For generators under 100 Kw., has Makers' Certificate been obtained? Are Certificates attached?

The foregoing description is correct.

AKTIEBOLAGET de LAVALS ÅNGTURBIN 25.11.57 Beredning  
Manufacturer

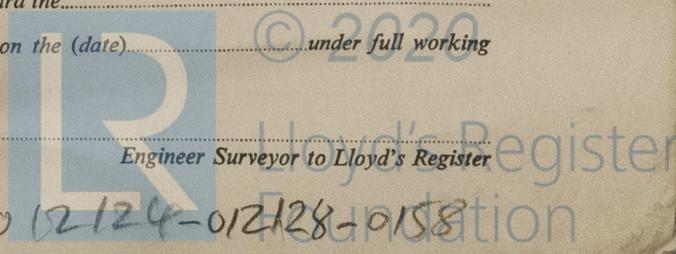
Is this machinery duplicate of a previous case? No If so, which?

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.  
This machinery has been built under Special Survey, in accordance with the approved plans, Secretary's letter and the requirements of the Rules. The Workmanship and materials are good and material certificates in respect of the important machinery castings and forgings are forwarded with this report.  
This machinery, in our opinion, is eligible to have the notation of +LMC when installed onboard a vessel, classed or intended to be classed by this Society, to the satisfaction of the Surveyors.

Survey Fee 46.350.-  
Expenses 26.-  
Date when a/c rendered 29-11-57

W.A. Leodh M. Lund  
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 "Meline" at in a proper manner and found satisfactory when tested on the (date) under full working conditions.



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