

2-OCT-1958

Form 4c
Received London _____ Port of Stockholm _____ No. 12228
of writing report 30-9-58
Stockholm No. of visits 11 First date 13.3.58 Last date 28.5.59

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM RECIPROCATING ENGINES

Owners (Or Consignees) _____
Contract No. if name unknown _____
Built at Rijeka by Messrs. Brodogradiliste "3 maj" when 1959 Yard No. 460
Auxiliary turbines or engines made at Stockholm by A/B de Laval's Ångturbin when 1959 Eng. Nos. 45070
Total No. of sets and description One Back Pressure Impulse Turbo Generating Set
Type VM 0.63 D6D.

STEAM TURBINES. No. of turbines per set 1 SHP per set 680 Steam pressure 41.4 ATÖ Steam temperature 460° C
Type of turbines Impulse
Particulars of gearing Single Reduction Double Helical
Pitch Circle Diameter of turbine shaft(s) 13000 PCD of pinion(s) 94.685 mm PCD of wheel(s) 1025.373 mm 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 & 59.7 mm 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? 12 hours Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? Yes

Identification marks Rotor:- NAP 3407 SKM FGB 12.11.58. Particulars of driven machinery A.C. Generator, Siemens Type F-3341-6 P21. 3 phase
Gearing { Wheel Rim:- 8826 SKM WAC 2.12.58. 60 cycles Rating 560 KVA at 1200r.p.m.
Wheel Shaft:- 1955 SKM IL 19.9.58. Driven through an elastic coupling.
Pinion:- 1578 SKM WAC 11.10.58.
Couplings:- { 2233, 2234 SKM WAC 13.3.58.
2240, 2250 SKM WAC 15.3.58.
3789 SKM WAC 13.5.58.

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 Augsburg, Marked LLOYDS AUG HKS LR 4.12.57.
For generators under 100 Kw., has Makers' Certificate been obtained? _____ Are Certificates attached? _____

The foregoing description is correct.

Lars Nerberg
AB DE LAVALS ÅNGTURBIN Manufacturer
Technical section

Is this machinery duplicate of a previous case? Yes. If so, which? Brodogradiliste Yard No. 459.

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 constructed under Special Survey of tested and approved materials and in accordance with the approved plans, Secretary's letters and the requirement of the Rules. The materials and workmanship are good and the machinery, coupled to its electric generator (No. 417391), was tested at the Engine Builders Works under full load conditions. The governor hand tripping- and automatic steam-shut-off-arrangements were tested and operated satisfactorily. On completion the machinery was opened up, examined and alignment gauges adjusted. In my opinion, this machinery is eligible to have the notation of +LMC when securely fitted onboard a vessel to the inspection and satisfaction of the Society's Surveyors.

Survey Fee Kr. 790
Expenses Kr. 33
Date when a/c rendered 30-9-58

W. Alcock
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 "TRUD" at Rijeka in a proper manner and found satisfactory when tested on the (date) 28/10/59 under full working conditions.

Fred J. Burn
Engineer Surveyor to Lloyd's Register
Lloyd's Register Foundation

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.