

Form 4c
 Date of writing report: 30-9-58
 Received London: _____ Port: of Stockholm No. 1920
 Place held at: Stockholm No. of visits: 9 First date: 28.2.58 Last date: 26.5.59.

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM RECIPROCATING ENGINES

Name of Ship: _____ Owners: _____
 Contract No. if name unknown: _____ (Or Consignees)
 Ship 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. 45069
 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
 PCD of turbine shaft(s): 13000 PCD of pinion(s): 94.685 mm PCD of wheel(s): 1025.373 mm Material of

Material of wheel rim(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? 18 HRS Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? Yes

Identification marks: Rotor:- NAP 3406 SKM WAC 6.12.58. Particulars of driven machinery: A.C. Generator, Siemens
 Type F-3341-6 P21. 3 phase 60 cycles

Wheel Rim:- 8906 SKM WAC 2.12.58. Rating 560 KVA at 1200 r.p.m.
 Wheel Shaft:- 1572 SKM WAC 20.2.58. Driven through an elastic coupling.
 Pinion:- 1577 SKM WAC 11.10.58.

Couplings:- 2209/10 SKM WAC 13.3.58.
 2238, 2244 SKM WAC 15.3.58.
 3788 SKM AB 28.2.58.
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 LR W SE 19.11.57.
 For generators under 100 Kw., has Makers' Certificate been obtained? _____ Are Certificates attached? _____

The foregoing description is correct.

Laas Norberg
 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. 417390), 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. 390:--
 Expenses Kr. 27:--
 Date when a/c rendered: 30-9-58

W.A. Lock
 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) *28/10/58* under full working
 conditions.

Fred. G. Bush
 Engineer Surveyor to Lloyd's Register