

Rpt. 4c

Date of writing report 13th March, 1958

Received London

Port Gothenburg

No. 23962.

Survey held at Gothenburg

No. of visits 7

First date 19/12 1957

Last date 11/3 1958

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM
RECIPROCATING ENGINESName of Ship "M E L I N E"
(Or Contract No. if name unknown)Owners A/S Tanktransport
(Or Consignees)

Ship Built at Gothenburg by A-B. Götaverken when 1958 Yard No. 716

Auxiliary turbines ~~or engines~~ made at Stockholm by A-B. De Laval's Ångturbin when 1957 Eng. Nos. 44327/9

Total No. of sets and description 2 impulse turbines, each driving an electric generator through double-helical single reduction gearing

STEAM TURBINES. No. of turbines per set. BHP per set. Steam pressure. Steam temperature.

Type of turbines.

Particulars of gearing.

RPM of turbine shaft(s). PCD of pinion(s). ~~11308 and 11309~~ ^{dated 29th November, 1957} PCD of wheels(s). Material of pinion(s). Material of wheel rim(s). Has rotor been dynamically balanced? Diameter of rotor shaft at bearings. Does the set include steam condenser? Is an emergency governor fitted? No. and purpose of attached pumps. Has the set been tested in the shop? If so, for how long at full power? ~~See Stockholm First Entry Report No. 11308 and 11309~~ Was the governing tested and found satisfactory? Was the set tested with driven machinery attached?

Identification marks. --- Particulars of driven machinery 1 - 565 KVA AC generator to each turbine

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 No. 16479

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

The foregoing description is correct.

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.

These auxiliary steam turbines have been built under Special Survey as per Stockholm First Entry Reports Nos. 11308 and 11309, copies of which are attached.

They have been securely fitted on board under my inspection and to my satisfaction, tried under full working power and found satisfactory.

Survey Fee. ---

Expenses. ---

Date when a/c rendered. ---

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 Steam Turbine Tanker "MELINE" at Gothenburg in a proper manner and found satisfactory when tested on the (date) 20/2. 1958 under full working conditions.

Engineer Surveyor to Lloyd's Register

0124-0128-0157

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FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship **"MELINE"** Owners **A/S Tanktransport**
(Or Contract No. if name unknown). (Or Consignees)
Ship Built at **Gothenburg** by **A-B. Götaverken** when **1958** Yard No. **716**
Auxiliary Engines or Gas Turbines made at **Jönköping** by **A-B. Jönköpings Motorfabrik** when **1957** Eng. Nos. **3104**
Total No. of sets and description (including type name) **1 Diesel Motor. Type A-B. Götaverken 300/450 G 5**

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine **5** Dia. of cylinders **300 mm.** Stroke **450 mm.**
2 or 4 stroke cycle **4** Maximum approved BHP **285** at **327** RPM Corresponding MIP **6.5 kg/cm²** Maximum pressure **49 kg/cm²**
Fuel **Are cylinders arranged in Vee or other special formation?** If so, No. of
crankshafts per engine **Is engine of opposed piston type?** No. and type of mechanically driven scavenge pumps or blowers
per engine **No. of exhaust gas driven blowers or superchargers per engine** Is welded construction
used for: Bedplate? **Entablature?** Total Internal volume of crankcase (if 20 cu. ft. or over) **No. and total area of**
crankcase explosion relief devices **Are flame guards or traps fitted?** Cooling medium for: Cylinders
Pistons **No. of attached pumps: F.W. cooling S.W. cooling Lubricating oil** How is engine started?

SHAFTING. Is a damper or detuner fitted? **No. of main bearings** Are bearings of ball or roller type? **Distance between**
inner edges of bearings in way of cranks **Crankshaft: Built, semi-built, solid.** Material of crankshaft **Approved**
minimum tensile strength **Dia. of pins** Journals **Breadth of webs at mid throw** Axial
thickness **If shrunk, radial thickness around eyeholes** Dia. of flywheel **Weight** Are balance
weights fitted? **Total weight** Rad. of gyration **Dia. of flywheel shaft**
Has each engine been tested in shop? **How long at full power?** Was it tested with driven machinery attached? **Was the**
governing tested and found satisfactory? **Date of approval of torsional vibration characteristics (for engines of 150 BHP and over)**
Date of approval of shafting **Identification marks on shafting**
Particulars of driven machinery **1 - 235 KVA AC generator**

Port and No. of Certificate for Starting Air Receivers **Sheffield No. 19345**

AUXILIARY GAS TURBINES. BHP per set **At** **RPM of output shaft. Open or closed cycle?**
Arrangement of turbines. HP drives **at** **RPM** HP gas inlet temp. **pressure**
(A small diagram should be attached showing gas cycle) IP **at** **"** IP **"** **"** **"** **"** **"**
LP **at** **"** LP **"** **"** **"** **"** **"**
No. of air compressors per set **Centrifugal or axial flow type?** Material of turbine blades
Material of compressor blades **No. of air coolers per set** No. of heat exchangers per set **How are**
turbines started? **Are the turbines operated in conjunction with free piston gas generators?**
Total No. of free piston gas generators **Dia. of working pistons** Dia. of compressor pistons **No. of double strokes**
per minute at full power **Gas delivery pressure** Gas delivery temperature
Have the turbines and attached equipment been tested in shop? **How long at full power?** Were they tested with driven machinery
attached? **Particulars of gearing** Particulars of driven machinery
Date of approval of plans **Identification marks**

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over **Stockholm No. 16480**
For generators under 100 Kw., has Makers' Certificate been obtained? **---** Are Certificates attached? **Yes**

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)

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

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 auxiliary heavy oil engine has been built under Special Survey as per Gothenburg First Entry Report No. 23585, copy of which is attached. It has been securely fitted on board under my inspection and to my satisfaction tried under full working power and found satisfactory.
Certificate in respect of starting air bottle is attached.

Survey Fee **---**Expenses **---**Date when a/c rendered **---**

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the **Steam Turbine Tanker "Meline"**
at **Gothenburg** in a proper manner and found satisfactory when tested on the (date) **20/2 1958** under full working conditions.

Engineer Surveyor to Lloyd's Register

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