

pt. 4c

Date of writing report 19th Jan. 1959

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Port of Antwerp No. 34339

Survey held at Antwerp

No. of visits 6

First date 5.8.58 Last date 7.12.58

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship m.v. "MARLY I" Owners Cokeries Du Marly. (Or Consignees)
Ship Built at Tamise Belgium by J. Boel & Sons S.A. when 1958 Yard No. 1360
Auxiliary Engines 3 Gas Turbines made at Köln-Deutz by Klöckner-Humboldt-Deutz AG. when 1958 Eng. Nos. 2149432-39, 2149440-47, 2149448-55, 2185336-39
Total No. of sets and description (including type name) 3 Deutz Heavy oil engines Type A8M 428, 1 " " " Type A4M 517

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine. Dia. of cylinders. Stroke.
or 4 stroke cycle. Maximum approved BHP. at. RPM Corresponding MIP. Maximum pressure.
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).

Particulars of driven machinery: 3 A.C. Generators Serial Nos. 427.920/921/922, 225 KVA. 290 Amps. 450 Volts. 600 RPM. 60 cycles.
1 A.C. Generator Serial No. 427929 Type F244 f-6, 44 KVA. 450 Volts-60 cycles.
Port and No. of Certificate for Starting Air Receivers: 359. HNO. Rpt. C. 57/557.

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.
IP " " " " " "
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. Augsburg Cert. No. 58/27
for generators under 100 Kw., has Makers' Certificate been obtained? yes. Are Certificates attached? yes.

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

Is this machinery duplicate of a previous case? 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.

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 m.v. MARLY I 10,340 gross tons of
Antwerp.
in a proper manner and found satisfactory when tested on the (date) 10.11.58 under full working conditions.

Tamise, Belgium. John W. O. Forbes, Engineer Surveyor to Lloyd's Register

SEE KLN. RPT. 4C. No. 320
KLN. RPT. 4C. No. 321
KLN. RPT. 4C. No. 359

Handwritten signature and date 10/3/59

