

urvey held at.....Antwerp

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Port of Antwerp

No. 34339

No. of visits

First date 5-8-78

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 Contract No. if name unknown.				(Or Consignees)	
Ship Built at	Tamise Belgium	by	J. Boel & Sons S.A.	when	1958
Yard No.	1360				
Auxiliary Engines	<del>or Gas Turbines</del> 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.....  
 uel..... Are cylinders arranged in Vee or other special formation?..... If so, No. of.....  
 ankshafts per engine..... Is engine of opposed piston type?..... No. and type of mechanically driven scavenge pumps or blowers.....  
 er engine..... No. of exhaust gas driven blowers or superchargers per engine..... Is welded construction.....  
 sed for: Bedplate?..... Entablature?..... Total internal volume of crankcase (if 20 cu. ft. or over)..... No. and total area of.....  
 ankcase explosion relief devices..... Are flame guards or traps fitted?..... Cooling medium for: Cylinders.....  
 istons..... No. of attached pumps: F.W. cooling..... S.W. cooling..... Lubricating oil..... How is engine started?.....

**HAFTING.** 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).....

ate of approval of shafting.....  
 articulars of driven machinery.....  
 ort and No. of Certificate for Starting Air Receivers.....

Identification marks on shafting.....  
 SEE KLN. RPT. 4.C. No. 321  
 KLN. RPT. 4.C. No. 359. HNO. Rpt. C. 57/557.

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.

**AUXILIARY-GAS-TURBINES.**

BHP per set..... RPM of output shaft. Open or closed cycle?.....

Arrangement of turbines. HP drives..... at..... RPM HP gas inlet temp..... pressure.....  
IP "..... at..... IP " " " " " "  
LP "..... at..... LP " " " " " "

Small diagram should be attached showing gas cycle)

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.....

Date of approval of plans..... Identification marks..... Particulars of driven machinery.....

**ELECTRIC GENERATORS.** Port and No. of Certificate for generators of 100 Kw. and over.....Augsburg Cert. N<sup>o</sup>. 58/27  
or 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

-11 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.  
Tamise, Belgium in a proper manner and found satisfactory when tested on the (date) 10-11-58 under full working conditions.

Tamise, Belgium.....in a proper manner and found satisfactory when tested on the (date).....10-11-50.....under full working conditions.

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

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