

## Rpt. 4c

Date of writing report 14th Dec. 1959 Received London Port Valenciennes No. 9  
Survey held at Maubeuge, Nord, France No. of visits 8 First date 26.8.58 Last date 5.11.59

## FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship (Or Contract No. if name unknown) Owners Tide Mar Corp. (Or Consignees)  
Ship Built at Dunkirk - France - by Chantiers de France when 1959 Yard No. 228  
Auxiliary Engines ~~or Gas Turbines~~ made at Maubeuge by Acieries du Nord when 1959 Eng. Nos. 476 and 477  
Total No. of sets and description (including type name) 2 Sets - Man License - Type W.8.V. - 18/22 S - 200 kW.

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 8 Dia. of cylinders 180 mm Stroke 220 mm  
2 or 4 stroke cycle 4 Maximum approved BHP 300 at 900 RPM Corresponding MIP 8.7 kg/cm<sup>2</sup> Maximum pressure 70 kg/cm<sup>2</sup>  
Fuel Diesel Oil Are cylinders arranged in Vee or other special formation? No - in - line If so, No. of  
crankshafts per engine One Is engine of opposed piston type? No No. and type of mechanically driven scavenge pumps or blowers  
per engine None No. of exhaust gas driven blowers or superchargers per engine One Is welded construction  
used for: Bedplate? No Entablature? No Total Internal volume of crankcase (if 20 cu. ft. or over) 0.3 m<sup>3</sup> = 10.70 cft No. and total area of  
crankcase explosion relief devices 2 - 164 cm<sup>2</sup> Are flame guards or traps fitted? No Cooling medium for: Cylinders F.W.  
Pistons -- No. of attached pumps: F.W. cooling I S.W. cooling -- Lubricating oil I How is engine started? Electric.

SHAFTING. Is a damper or detuner fitted? Yes No. of main bearings 9 Are bearings of ball or roller type? Plain Distance between  
inner edges of bearings in way of cranks 195 mm Crankshaft: Built semi-built, solid. Material of crankshaft O.H. steel Approved  
minimum tensile strength 80 kg/mm<sup>2</sup> Dia. of pins 105 mm Journals 105 mm Breadth of webs at mid throw 178 mm Axial  
thickness 45 mm If shrunk, radial thickness around eyeholes -- Dia. of flywheel 800 mm Weight 380 kg Are balance  
weights fitted? No Total weight -- Rad. of gyration 137 kgm<sup>2</sup> Dia. of flywheel shaft 115 mm Intégral with C/SHAFT  
Has each engine been tested in shop? Yes How long at full power? 6 hours Was it tested with driven machinery attached? yes Was the  
governing tested and found satisfactory? Yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 22.9.59  
Date of approval of shafting 17.12.58 Identification marks on shafting Lloyd's Aug- A G55 - HKS - C 10893/613 ✓ base 442 K  
Particulars of driven machinery 250 Kva Electric Generator

Port and No. of Certificate for Starting Air Receivers None

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 " " " " LP " " " " " 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  
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 PARIS - PAR 1381 - PAR 1398  
For generators under 100 Kw., has Makers' Certificate been obtained? --- Are Certificates attached? ---

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

ACIERIES DU NORD

DIRECTION MAUBEUGE

Par Procuration :

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.

The machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters.

The quality and workmanship of materials are good. The engines are considered to be up to the standards required for auxiliary machinery intended for vessels classed with this Society.

Eng N° 476 Generator N° 806457/1 C/shaft N° 10893/613  
" " 477 " " 806457/3 " " 10895/615

Survey Fee 121,360 Ffs  
Expenses 23,250 Ffs.

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  
at in a proper manner and found satisfactory when tested on the (date) under full working conditions.

Engineer Surveyor to Lloyd's Register

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