pt. 4c

20 MAY 1963

te of writing report 18.4.1963 Received London ..... Port Katowice No. Kat.971

rvey held at Swiętochłowice No. of visits 4 First date 17.1.1963 Last date 28.3.1963

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

ame of Ship ..... *Owners* ..... *(Or Consignees)*

r Contract No. if name unknown).

hip Built at Gdynia *by* Stocznia Komuny Paryskiej *when* ..... *Yard No.* B41/1

uxiliary Engines or Gas Turbines made at Swiętochłowice *by* Zakł.Urz.Techn."Zgoda" *when* ..... *Eng. Nos.* 01104-01108

otal No. of sets and description (including type name) 122, 4-stroke Sulzer Licence type BAH22

NTERNAL COMBUSTION RECIPROCATING ENGINES. *No. of cylinders per engine* 5 *Dia. of cylinders* 220 mm *Stroke* 320 mm *or 4 stroke cycle* 4 *Maximum approved BHP* 300 *at* 500 *RPM Corresponding MIP* - *Maximum pressure* 62,7 ATS *uel* Diesel *Are cylinders arranged in Vee or other special formation?* No *If so, No. of rankshafts per engine* - *Is engine of opposed piston type?* No *No. and type of mechanically driven scavenge pumps or blowers er engine* - *No. of exhaust gas driven blowers or superchargers per engine* 1 *Is welded construction sed for: Bedplate?* No *Entablature?* No *Total internal volume of crankcase (if 20 cu. ft. or over)* 1,14 m^3 *No. and total area of rankcase explosion relief devices* 5 575 cm^2 *Are flame guards or traps fitted?* No *Cooling medium for: Cylinders* fresh water *istons* - *No. of attached pumps: F.W. cooling* - *S.W. cooling* - *Lubricating oil* Yes *How is engine started?* by air

5485

HAFTING. *Is a damper or detuner fitted?* No *No. of main bearings* 7 *Are bearings of ball or roller type?* No *Distance between nner edges of bearings in way of cranks* 245 mm *Crankshaft:* ~~*Built, semi-built*~~, *solid. Material of crankshaft* C-steel *Approved inimum tensile strength* 50 kg/cm^2 *Dia. of pins* 145 *Journals* 155 *Breadth of webs at mid throw* 280 *Axial hickness* 64 *If shrunk, radial thickness around eyeholes* - *Dia. of flywheel* 1200 *Weight* 670 kg *Are balance eights fitted?* Yes *Total weight* - *Rad. of gyration* 160 *Dia. of flywheel shaft* -

Has each engine been tested in shop? Yes *How long at full power?* 4 hours *Was it tested with driven machinery attached?* - *Was the overning tested and found satisfactory?* Yes *Date of approval of torsional vibration characteristics (for engines of 150 BHP and over)* +1 hour 110% 22.10.62 BAH22

Date of approval of shafting - *Identification marks on shafting* Lloyd's Reg. Rka.11382/410, M.F.25.8.62, N.T.26.2.63

articulars of driven machinery A.C. Generator Nr 11984 250 KVA

ort and No. of Certificate for Starting Air Receivers .....

UXILIARY GAS TURBINES. *BHP per set* ..... *At* ..... *RPM of output shaft. Open or closed cycle?* .....

rrangement 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 urbines 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 er 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 ttached?* ..... *Particulars of gearing* .....

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

LECTRIC GENERATORS. *Port and No. of Certificate for generators of 100 Kw. and over* Rijeka Cert. Nr 11210

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

Zakłady Urządzeń Technicznych „ZGODA" Przedsiębiorstwo Państwowe

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

Inż. Wacław Sobotowicz Z-ca Kierownika Działu Kontroli Technicznej

Manufacturer Inż. Z. Kaliszewski Naczelny Inżynier — I z-ca Dyr.

s 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.*

he engine has been constructed under special survey in accordance with the Society's Rules nd Regulations as well as with Sulzer's plans and instructions thereto.

he materials used in the construction are good and the workmanship is satisfactory. The engine as been tested on the Maker's test bed during 4 hours at normal load and 1 hour at 10% over-oad. The governor has been checked and found to work satisfactorily. The certificate for crank-haft is attached to this report.

urvey Fee .....

xpenses .....

ate when a/c rendered .....

Engineer Surveyor to Lloyd's Register

eclaration to be signed by Surveyor at fitting-out Port:— *The above described machinery has been fitted on board the* m.s. "FRANCESCO NULLO"

at Gdynia *in a proper manner and found satisfactory when tested on the (date)* 12-12-63 *under full working conditions.*

Engineer Surveyor to Lloyd's Register

© 2021 Lloyd's Register Foundation