Rpt. 4c

Date of writing report 6th March, 1964 | Received London -3 NOV 1964 | Port of Gdańsk | No. GDK 016/63, 21-22/64

Survey held at Poznań | No. of visits 18 | First date 26-7-63 | Last date 27-2-64

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship " JOHANNES LATUHARHARY" (Or Contract No. if name unknown). Owners (Or Consignees) Indonesian Government

Ship Built at Szczecin by Stocznia Szczecińska Zakłady Przemysłu Metalowego when 1964 Yard No. B454/6

Auxiliary Engines or Gas Turbines made at Poznań by "H.Cegielski-Poznań", Poznań when 2-1964 Eng. Nos. 048, Gl.Nos. 10571-78, 049, " " 10579-86, 050, " " 10587-594

Total No. of sets and description (including type name) three, "H.Cegielski-Sulzer", 8 BAH 22

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 8 Dia. of cylinders 220mm Stroke 320mm 2 or 4 stroke cycle 4 Maximum approved BHP 480 at 500 RPM Corresponding MIP 10.2kgs/cm² Maximum pressure 63.2 kgs/cm² Fuel Diesel Oil Are cylinders arranged in Vee or other special formation? no If so, No. of crankshafts per engine - 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) 1.815 cub.m. No. and total area of crankcase explosion relief devices 8 with 0.1112m² Are flame guards or traps fitted? no Cooling medium for: Cylinders fresh water Pistons - No. of attached pumps: F.W. cooling - S.W. cooling - Lubricating oil one How is engine started? by Air at 30/cm² maximum

SHAFTING. Is a damper or detuner fitted? no No. of main bearings 9 Are bearings of ball or roller type? no Distance between inner edges of bearings in way of cranks 245mm Crankshaft: ~~Built~~, solid. Material of crankshaft B.O.H.Steel ~~Approved~~ Actual minimum tensile strength 51.6kgs/mm² Dia. of pins 145mm Journals 155mm Breadth of webs at mid throw 230mm Axial thickness 64mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 1250mm Weight 1250mm Are balance weights fitted? no Total weight - Rad. of gyration - Dia. of flywheel shaft 155mm

Has each engine been tested in shop? yes How long at full power? 4 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) 9-4-63

Date of approval of shafting 9-4-63 Identification marks on shafting Eng.048-Lloyd's K-2542/849 CM 26.7.63, Eng.049-Lloyds K-2714/75 ~~LW~~ 3-2-64, Eng.050-LLOYDS K-2590/857 ~~LW~~ 12.9.63

Particulars of driven machinery Type SC 1126-12, 400 KVA, 400 V, 500 R.P.M.

Port and No. of Certificate for Starting Air Receivers

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

Arrangement of turbines. (A small diagram should be attached showing gas cycle) HP drives at RPM HP gas inlet temp. pressure; 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 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 LLOYD'S RKA No. 12342, No. 12343 & No. 12325

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) ✓ 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.

These Auxiliary Engines have been constructed under Special Survey in accordance with the Rules, approved plans, and Secretary's letters.

The quality of materials and the workmanship are good.

On completion of assembly, the engines were tested under full load and 10% overload conditions on the Makers' Test bed with satisfactory results. The engines were opened up, all components examined and found in good order. These engines are suitable, in my opinion, for installation in a ship classed with this Society.

Survey Fee zł 10.536.-& £ 204-10%=£ 183.15.0

Expenses zł 2,211,40

Date when a/c rendered 30.9.63 31.12.63

B. Langhammer. B.Langhammer 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. "JOHANNES LATUHARHARY" at Szczecin in a proper manner and found satisfactory when tested on the (date) 22/9/64 under full working conditions.

F.G.Burn Engineer Surveyor to Lloyd's Register

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