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of writing report 5th December, 1956

Received London

Port Copenhagen

No.

First date 15-3-56

Last date 3-12-56

held at Kalundborg

No. of visits 4

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

To order of
Name of Ship A/B Nordstjernan for M/S "AXEL JOHNSON"
Contract No. if name unknown.
Built at Gøteborg
Auxiliary Engines ~~XXXXXX~~ made at Kalundborg
Total No. of sets and description (including type name) 1 off BH100 heavy oil trunk piston, solid injection
Owners (Or Consignees) when 8-1925 Yard No. 12298
by A/S Motorfabriken Bukh when 1956 Eng. Nos.
INTERNAL COMBUSTION RECIPROCATING ENGINES.
No. of cylinders per engine 1 Dia. of cylinders 100 mm Stroke 130 mm
at 1800 RPM Corresponding MIP 7.15 kg/cm² Maximum pressure 55 kg/cm²
or 4 stroke cycle 4 Maximum approved BHP 12
fuel heavy oil Are cylinders arranged in Vee or other special formation? no
Is engine of opposed piston type? no No. and type of mechanically driven scavenge pumps or blowers
crankshafts per engine none No. of exhaust gas driven blowers or superchargers per engine none
per engine none Is welded construction
used for: Bedplate? no Entablature? no Total Internal volume of crankcase (if 20 cu. ft. or over) water
crankcase explosion relief devices Are flame guards or traps fitted? Cooling medium for: Cylinders
No. of attached pumps: F.W. cooling S.W. cooling 1 Lubricating oil 1 How is engine started? by hand
SHAFTING. Is a damper or detuner fitted? No. of main bearings 2 Are bearings of ball or roller type? no Distance between
inner edges of bearings in way of cranks 161 mm Crankshaft: ~~XXXXXX~~ solid. Material of crankshaft SM Steel Approved
minimum tensile strength 48 kg/cm² Dia. of pins 60 mm Journals 60 mm Breadth of webs at mid throw 80 mm Axial
thickness 36 mm If shrunk, radial thickness around eyeholes solid for 2 Dia. of flywheel 500 Weight 75 Are balance
weights fitted? yes Total weight 12.1 kgm Dia. of flywheel shaft 2
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)
Date of approval of shafting 10-2-55 Identification marks on shafting LR. CPM 1265 KH 15-3-56
Particulars of driven machinery 1 off centrifugal pump DESMI No. 5348 LR. MN 28-8-56.

Port and No. of Certificate for Starting Air Receivers

AUXILIARY GAS TURBINES. BHP per set At RPM HP gas inlet temp. pressure
Arrangement of turbines. HP drives at IP at LP at
(A small diagram should be attached showing gas cycle) LP at
No. of air compressors per set Centrifugal or axial flow type? No. of air coolers per set No. of heat exchangers per set How are
Material of compressor blades Are the turbines operated in conjunction with free piston gas generators? No. of double strokes
turbines started? Dia. of working pistons Dia. of compressor pistons
Total No. of free piston gas generators Gas delivery temperature Gas delivery pressure Were they tested with driven machinery
per minute at full power Have the turbines and attached equipment been tested in shop? How long at full power?
attached? Particulars of gearing Identification marks Particulars of driven machinery
Date of approval of plans

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over
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)
MOTORFABRIKEN BUKH
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.

The above heavy oil engine, fire pump set has been built under special survey in accordance with the Rules, the approved plans and the Secretary's letter dated 28th November, 1956.

The material used has been tested as required by the Rules.
The workmanship is good.
The heavy oil engine set tested under full power working condition in the shop and found good.

Survey Fee Kr. 110,-

Expenses Kr. 14,-

Date when a/c rendered 6/12 1956

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the under full working conditions.
in a proper manner and found satisfactory when tested on the (date) Engineer Surveyor to Lloyd's Register

Engineer Surveyor to Lloyd's Register

003162 003174 0234

Lloyd's Register

0235 1/2

Builder