17 NOV 1959
18 NOV 1959
CASE REOPENED

ot. 4c

of writing report 14.11.1959. Received London ..... Port Helsingfors No. 7037

ey held at Vasa No. of visits 22 First date 2.9.58 Last date 7.3.59

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

ne of Ship ..... Owners (Or Consignees) .....
Contract No. if name unknown).
Built at Helsingfors by Wärtsilä-koncernen Ab, Sandvikens Skeppsdocka when ..... Yard No. 366
xiliary Engines or Gas Turbines made at Vasa by Wärtsilä-koncernen Ab, Wasa Mekaniska Verkstad when 1959 Eng. Nos. 234
al No. of sets and description (including type name) K 55 E

TERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 5 Dia. of cylinders 180 mm Stroke 300 mm
r 4 stroke cycle 2 Maximum approved BHP 258 at 600 RPM Corresponding MIP 6,13 Maximum pressure 70kg/cm²
el marine diesel oil Are cylinders arranged in Vee or other special formation? no If so, No. of
nkshafts per engine - Is engine of opposed piston type? no No. and type of mechanically driven scavenge pumps or blowers
r engine one centrifugal blower No. of exhaust gas driven blowers or superchargers per engine none Is welded construction
ed for: Bedplate? - Entablature? - Total internal volume of crankcase (if 20 cu. ft. or over) 0,75 m³ No. and total area of
ankcase explosion relief devices X2-100cm² Are flame guards or traps fitted? no Cooling medium for: Cylinders water
istons lubr.oil No. of attached pumps: F.W. cooling none S.W. cooling none Lubricating oil one How is engine started? with
mpr. air

SHAFTING. Is a damper or detuner fitted? yes No. of main bearings 7 Are bearings of ball or roller type? no Distance between
ner edges of bearings in way of cranks 222 mm Crankshaft: ~~semi-built~~ solid. Material of crankshaft SM steel Approved
inimum tensile strength 52 kg/cm² Dia. of pins 120 mm Journals 125 mm Breadth of webs at mid throw 230 mm Axial
hickness 56 mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 1050 mm Weight 652 kg Are balance
eights fitted? no Total weight - Rad. of gyration - Dia. of flywheel shaft 125 mm
Has each engine been tested in shop? yes How long at full power? 12 hours Was it tested with driven machinery attached? no Was the
overning tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 21.8.58
Date of approval of shafting 25.9.58 Identification marks on shafting Lloyd's Got No.598 BJG 9.10.58. 31.5.58
Particulars of driven machinery water break

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. 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
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 .....
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)
Wärtsilä-koncernen A/B WASA MEK. VERKSTAD R.Oberg 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.

This Diesel Engine has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters. Quality of materials and workmanship found good.

Survey Fee Fmk.60.000:-
Expenses -
Date when a/c rendered 26.5.59.

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 icebreaker "MOSKVA"
at Helsingfors in a proper manner and found satisfactory when tested on the (date) 11.5.60 under full working conditions.

Engineer Surveyor to Lloyd's Register

bar 41.1

11.1.60

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