pt. 4c

16. JAN. 1962

e of writing report 21.2.61 Received London ..... Port Helsingfors No. 7694

ey held at Vasa No. of visits 28 First date 23.5.59 Last date 8.7.60

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

me of Ship "LENINGRAD" Owners U.S.S.R.
Contract No. if name unknown). (Or Consignees) Wärtsilä-koncernen Ab,
p Built at Helsingfors by Sandvikens Skeppsdocka when ..... Yard No. 366
xiliary Engines or Gas Turbines made at Vasa by Wärtsilä-koncernen Ab, Wasa Mekaniska Verkstad when 1960 Eng. Nos. 199
tal No. of sets and description (including type name) Wärtsilä-Polar K58E

TERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 8 Dia. of cylinders 180 mm Stroke 300 mm
r 4 stroke cycle 2 Maximum approved BHP 412 455 at 600 RPM Corresponding MIP 6,59 7,1 Maximum pressure 65 kg/cm²
el 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
engine one turbo blower No. of exhaust gas driven blowers or superchargers per engine - Is welded construction
d for: Bedplate? no Entablature? no Total internal volume of crankcase (if 20 cu. ft. or over) 1,2 m³ No. and total area of
nkcase explosion relief devices 3, 600 cm² Are flame guards or traps fitted? no Cooling medium for: Cylinders fresh water
tons lubr.oil No. of attached pumps: F.W. cooling none S.W. cooling none Lubricating oil one How is engine started? by air

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AFTING. Is a damper or detuner fitted? no No. of main bearings 10 Are bearings of ball or roller type? no Distance between
er edges of bearings in way of cranks 222 mm Crankshaft: ~~Built-up~~ solid. Material of crankshaft SM steel Approved
nimum tensile strength 52 kg/mm² Dia. of pins 120 mm Journals 125 mm Breadth of webs at mid throw 280 mm Axial
ckness 56 mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 900 mm Weight 458 kg Are balance
ights fitted? no Total weight - Rad. of gyration - Dia. of flywheel shaft 125 mm
s each engine been tested in shop? yes How long at full power? 12 hours Was it tested with driven machinery attached? yes Was the
erning tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 19.5.58
te of approval of shafting 25.9.58 Identification marks on shafting Lloyds Kln AS 776 27.4.59 28/1/57
rticulars of driven machinery Generator

367 N
9/2/62

rt and No. of Certificate for Starting Air Receivers

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kcas

XILIARY GAS TURBINES. BHP per set ..... At ..... RPM of output shaft. Open or closed cycle? .....
rangement of turbines. HP drives ..... at ..... RPM HP gas inlet temp. ..... pressure .....
small diagram should be ched showing gas cycle) IP ,, ... at ..... ,, IP ,, ,, ,, ... ,, ...
LP ,, ... at ..... ,, LP ,, ,, ,, ... ,, ...
. of air compressors per set ..... Centrifugal or axial flow type? ..... Material of turbine blades .....
aterial of compressor blades ..... No. of air coolers per set ..... No. of heat exchangers per set ..... How are
bines started? ..... Are the turbines operated in conjunction with free piston gas generators? .....
tal No. of free piston gas generators ..... Dia. of working pistons ..... Dia. of compressor pistons ..... No. of double strokes
minute at full power ..... Gas delivery pressure ..... Gas delivery temperature .....
ve the turbines and attached equipment been tested in shop? ..... How long at full power? ..... Were they tested with driven machinery
ached? ..... Particulars of gearing .....
te of approval of plans ..... Identification marks ..... Particulars of driven machinery .....

ture
ECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over .....
r generators under 100 Kw., has Makers' Certificate been obtained? ..... Are Certificates attached? .....

e 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. Öberg
Manufacturer

this machinery duplicate of a previous case? Ja If so, which? 7690

NERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters. te 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.

rvey Fee Fmk. 70.000:-
penses -
te when a/c rendered 4.10.60.

A. Weber
Engineer Surveyor to Lloyd's Register

laration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the M/V "Leningrad" Helsingfors in a proper manner and found satisfactory when tested on the (date) 29.10.61. under full working conditions.

A. Weber
Å. Weber. Engineer Surveyor to Lloyd's Register

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