13 MAR 1961 16 JAN 1962

pt. 4c

of writing report 21.2.61 | Received London | Port Helsingfors | No. 7674

ey held at Vasa | No. of visits 28 | First date 12.1.60 | Last date 22.6.60

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

me of Ship | Owners

Contract No. if name unknown).

p Built at Helsingfors by Wärtsilä-koncernen Ab, (On Consignee) 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. 198

al 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 (4≤5) at 600 RPM Corresponding MIP 6,59 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

HAFTING. 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~~, semi-built, 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

verning tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 19.6.58

te of approval of shafting 28.1.57 25.9.58 Identification marks on shafting Lloyds Got No 5124 AS 25.5.59 28/1/57

rticulars of driven machinery Generator

367N. GKP 26.5.61

rt and No. of Certificate for Starting Air Receivers

UXILIARY 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 ached showing gas cycle) IP ,, at ,, IP ,, ,, ,, ,,

LP ,, at ,, LP ,, ,, ,, ,,

o. 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

rbines started? Are the turbines operated in conjunction with free piston gas generators?

otal No. of free piston gas generators Dia. of working pistons Dia. of compressor pistons No. of double strokes

r minute at full power Gas delivery pressure Gas delivery temperature

ave the turbines and attached equipment been tested in shop? How long at full power? Were they tested with driven machinery

tached? Particulars of gearing

ate of approval of plans Identification marks Particulars of driven machinery

LECTRIC 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?

he foregoing description is correct and the particulars are as approved for torsional vibration characteristics (where applicable)

Wärtsilä-koncernen A/B
WASA MEK. VERKSTAD
R. Öhman
Manufacturer

this machinery duplicate of a previous case? yes If so, which? Rpt.7564

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

Å. Weber
Engineer Surveyor to Lloyd's Register

claration 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.

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

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