

st. 4c

of writing report

14-5-64

Received London

Port MILAN

No. 46

by held at

No. of visits

First date

Last date

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Owners (Or Consignees)
Contract No. if name unknown)
Built at Genova-Sestri by Ansaldo - Cantieri Navali when 1594 Yard No. 1594
Auxiliary Engines or Gas Turbines made at Saronno by Isotta Fraschini e Motori when '63-64 Eng. Nos. 266089
No. of sets and description (including type name) 1 - D 26 S6V DK 556 A 4. Breda
INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 180 mm. Stroke 190 mm.
4 stroke cycle 4 Maximum approved BHP 384 at 1500 RPM Corresponding MIP 9.7 Maximum pressure 109.4
class A BSS 2869 Are cylinders arranged in Vee or other special formation? 'V' of 60° If so, No. of
crankshafts per engine 1 Is engine of opposed piston type? no. No. and type of mechanically driven scavenge pumps or blowers
engine - No. of exhaust gas driven blowers or superchargers per engine - Is welded construction
d for: Bedplate? yes Entablature? yes Total internal volume of crankcase (if 20 cu. ft. or over) 5 cu. ft. No. and total area of
crankcase explosion relief devices 2 22 sq. in. Are flame guards or traps fitted? pyropress cooling medium for: Cylinders water
No. of attached pumps: F.W. cooling 1 S.W. cooling - Lubricating oil 1 How is engine started? electrically
Is a damper or detuner fitted? No. No. of main bearings 5 Are bearings of ball or roller type? no Distance between
edges of bearings in way of cranks 140 mm. Crankshaft: solid Material of crankshaft 38 NCD4 steel Approved
minimum tensile strength 95 Kg/mm² Dia. of pins 110 mm. Journals 140 mm. Breadth of webs at mid throw 230 mm. Axial
thickness 47 mm. If shrunk, radial thickness around eyeholes solid Dia. of flywheel 765 mm. Weight 380 Kg. Are balance
weights fitted? yes Total weight 84 Kg. Rad. of gyration 152 mm. Dia. of flywheel shaft 140 mm.
as 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) 18-10-63 & 4-2-64
Date of approval of shafting 2.5.63 Identification marks on shafting LLOYD'S MI. 16.7.1963 - GL.
Particulars of driven machinery type DK 556 A 4 'Still' generator

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 -
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 - Particulars of driven machinery -
Date of approval of plans - Identification marks -

Manuf ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Hamburg Cert. No. 63/1970
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)
Isotta Fraschini & Motori Breda - Saronno. Manufacturer

Is this machinery duplicate of a previous case? yes If so, which? see Rpt ,45 for yard No. 1593.

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 machinery was constructed under special survey, in accordance with the Rules and approved plans. All the materials were submitted to the tests required by the Rules and found satisfactory; workmanship satisfactory throughout.

Survey Fee 101280 Lire
Expenses 9108 lire
Date when a/c rendered 17.2.64

(Ing. G. Levi)
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 -
at - in a proper manner and found satisfactory when tested on the (date) - under full working conditions.

Engineer Surveyor to Lloyd's Register

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