t. 4c

of writing report JUN 23 1959 Received London ..... Port Kobe No. FE6518

held at Innoshima, Japan No. of visits 40 First date 16th Oct., 1958 Last date 4th June, 1959.

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

e of Ship Motor Fishing Boat Owners (Or Consignees) V.O. SUDOIMPORT, MOSCOW, U.S.S.R.

Contract No. if name unknown).

Built at Mukaishima, Japan by Hitachi S.B. & E. Co., Ltd. Mukaishima Shipyard when 6-1959 Yard No. 3873

liary Engines ~~or Gas Turbines~~ made at Innoshima, Japan by Hitachi S.B. & E. Co., Ltd. Innoshima Shipyard when 2-1959 Eng. Nos. 5154 5155

No. of sets and description (including type name) 2 off, Hitachi B&W 420-MTH-30 Heavy Oil Trunk Piston Solid Injection

ERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 4 Dia. of cylinders 205 mm Stroke 300 mm

4 stroke cycle 4 Maximum approved BHP 140 at 600 RPM Corresponding MIP 7 kgs/cm² Maximum pressure 55 kgs/cm²

vets a Heavy Oil Are cylinders arranged in Vee or other special formation? No If so, No. of

shafts per engine - Is engine of opposed piston type? No No. and type of mechanically driven scavenge pumps or blowers

ngine None No. of exhaust gas driven blowers or superchargers per engine None Is welded construction

for: Bedplate? No Entablature? No Total internal volume of crankcase (if 20 cu. ft. or over) 1 m³ No. and total area of

case explosion relief devices 1 x 181.5 cm² Are flame guards or traps fitted? Yes Cooling medium for: Cylinders Fresh Water

ns No No. of attached pumps: F.W. cooling None S.W. cooling None Lubricating oil 1 How is engine started?

by compressed air

FTING. 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 264 mm Crankshaft: ~~Built~~, semi-built, ~~solid~~ Material of crankshaft Cast Steel Web & Pin, Forged Steel Journal Approved

Minimum tensile strength 44 kgs/mm² Dia. of pins 135 mm Journals 135 mm Breadth of webs at mid throw 232 mm Axial

ness 76 mm If shrunk, radial thickness around eyeholes 63 mm Dia. of flywheel 1,250 mm Weight 830 kgs Are balance

ts fitted? Yes Total weight 795 kgs Rad. of gyration 135 mm Dia. of flywheel shaft -

each engine been tested in shop? Yes How long at full power? 4 hours Was it tested with driven machinery attached? Yes Was the

ning tested and found satisfactory? Yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) - 17.2.59

of approval of shafting 17, Feb.1958 Identification marks on shafting For E.No.5154; LLOYD'S KOB No. 30021-1 to 4 SH LR 5-12-58 For E.No.5155; LLOYD'S KOB No. 30022-1 to 4 SH LR 15-12-58 436M

culars of driven machinery 1 off, Drip proof, Selfventilating, Compound Wound, D.C. Generator, 75 K.W. at 600 R.P.M.

and No. of Certificate for Starting Air Receivers Kobe Cert. No.AR-30049

ILIARY GAS TURBINES. BHP per set ..... At ..... RPM of output shaft. Open or closed cycle?

gement of turbines. HP drives ..... at ..... RPM HP gas inlet temp. ..... pressure

ll diagram should be d showing gas cycle) IP " ..... at ..... " IP " " " ..... "

LP " ..... at ..... " LP " " " ..... "

f air compressors per set ..... Centrifugal or axial flow type? ..... Material of turbine blades

rial of compressor blades ..... No. of air coolers per set ..... No. of heat exchangers per set ..... How are

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

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

inute at full power ..... Gas delivery pressure ..... Gas delivery temperature

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

ed? ..... Particulars of gearing

of approval of plans ..... Identification marks ..... Particulars of driven machinery

TRIC GENERATORS. Port and No. of Certificate for generators ~~of 100 Kw. and over~~ Kobe Cert.Nos M-54108

nerators under 100 Kw., has Makers' Certificate been obtained? - Are Certificates attached? -

oregoing description is correct ~~and the particulars are as approved for torsional vibration characteristics~~ (strike out words not applicable)

HITACHI SHIPBUILDING & ENGINEERING CO., LTD. INNOSHIMA SHIPYARD Manufacturer

machinery duplicate of a previous case? Yes If so, which? Eng.Nos.5124 & 5125 for M.T. "ARTHUR MAERSK" Eng.Nos.5152 & 5153 for M.V. "DNEPR"

ERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters. quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

These machines have been constructed under Special Survey in accordance with the Rules, Approved Plans and Secretary's Letters.

The material and workmanship are good.

On completion these machines have been examined under full working conditions at shop and found satisfactory.

Fee

es

hen a/c rendered

Engineer Surveyor to Lloyd's Register

ation to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the Motor Fishing Boat

kaishima, Japan in a proper manner and found satisfactory when tested on the (date) 6th May, 1959 under full working conditions.

Engineer Surveyor to Lloyd's Register

© 2021 Lloyd's Register Foundation

010089-010095-0139