6 OCT 1958

YOKOHAMA 2711F

t. 4c

of writing report 22nd September, 1958. Received London ..... Port KOBE No. FE-6088

vey held at Osaka, Japan No. of visits 7 First date 19th Oct., 1957 Last date 18th March, 1958.

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

e of Ship M.V. "RIYADH MARU" Owners Nippon Yushutsu Sekiyu Co., Ltd. (Or Consignees)
Contract No. if name unknown).

Built at Yokohama by Nippon Steel Tube Co., Ltd., Tsurumi Shipyard when 1958-3 Yard No. 742

iliary Engines ~~xxxxxxxxxx~~ made at Amagasaki by Yanmar Diesel Engine Co., Ltd. when 1958-3 Eng. Nos. 75066EY

al No. of sets and description (including type name) One(1) 4 S.C.S.A. diesel engine

TERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 5 Dia. of cylinders 200mm Stroke 250mm
r 4 stroke cycle 4 Maximum approved BHP 150 at 720 RPM Corresponding MIP 5.83kg/cm² Maximum pressure 60 kg/cm²
l Diesel Oil Are cylinders arranged in Vee or other special formation? No If so, No. of
ukshafts per engine - 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
l for: Bedplate? No Entablature? Total internal volume of crankcase (if 20 cu. ft. or over) 715 litre No. and total area of
ankcase explosion relief devices 2 x 147 cm² Are flame guards or traps fitted? Yes Cooling medium for: Cylinders Sea water
ons - No. of attached pumps: F.W. cooling - S.W. cooling 1 Lubricating oil 1 How is engine started? by
Manu mpressed air.

AFTING. Is a damper or detuner fitted? No No. of main bearings 6 Are bearings of ball or roller type? No No Distance between
r edges of bearings in way of cranks 246 mm Crankshaft: ~~Built, welded~~, solid. Material of crankshaft Carbon steel Approved
mum tensile strength 55 kg/mm2 Dia. of pins 125mm Journals 140mm Breadth of webs at mid throw 190mm Axial
ness 62mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 860mm Weight 780 kg Are balance
ghts fitted? No Total weight - Rad. of gyration 345mm 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
rning tested and found satisfactory? Yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 14-4-58 28/5/58
of approval of shafting 14-4-58 Identification marks on shafting Y-11315.
iculars of driven machinery

and No. of Certificate for Starting Air Receivers

XILIARY GAS TURBINES. BHP per set ..... At ..... RPM of output shaft. Open or closed cycle?
ngement of turbines. HP drives ..... at ..... RPM HP gas inlet temp. ..... pressure .....
mall diagram should be hed showing gas cycle) IP " ..... at ..... " IP " " " ..... " .....
LP " ..... at ..... " LP " " " ..... " .....

of air compressors per set ..... Centrifugal or axial flow type? ..... Material of turbine blades 31/10/58
erial of compressor blades ..... No. of air coolers per set ..... No. of heat exchangers per set ..... How are
nes started? ..... Are the turbines operated in conjunction with free piston gas generators? .....
l 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 .....
the turbines and attached equipment been tested in shop? ..... How long at full power? ..... Were they tested with driven machinery
hed? ..... Particulars of gearing .....
of approval of plans ..... Identification marks ..... Particulars of driven machinery .....

ECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Yokohama. No. M-4659
generators under 100 Kw., has Makers' Certificate been obtained? - Are Certificates attached? -

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

S. Nakai. Manager of Kanzaki Works.
Yanmar Diesel Engine CO., Ltd. Manufacturer

is machinery duplicate of a previous case? Yes If so, which? s.s. "ATLANTIC UNION"

NERAL 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.

This Engine has been constructed under Special Survey in accordance with the Rules, Approved plans and Secretary's letters. The materials and workmanship are sound and good. The engine has been examined under full working condition in the shop and found satisfactory.

Fee ¥26,000.-
ses 2,140.-
when a/c rendered MAR 19 1958

Engineer Surveyor to Lloyd's Register
M. Hayashibara.

ation to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the M.V. "RIYADH MARU"
24th June, 1958 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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