

21 NOV 1958

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of writing report 13-11-58 Received London Port Copenhagen No. 17277
held at Aalborg and Elsinore No. of visits 10 First date 1-7-58 Last date 6-11-58

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

me of Ship m.v. "TENNA DAN" ex "HÖEGH TRADER" Owners J. Lauritzen
Contract No. if name unknown (Or Consignees)

ip Built at Beaumont - Texas by Pennsylvania Shipyard's Inc when 1944 Yard No. 295
Auxiliary Engines or ~~Gas Turbines~~ made at San Francisco by Enterprise Eng. & Fdry. Co. when 1944 Eng. Nos. 4250-51
al No. of sets and description (including type name) 2 off - 6 cyl. heavy oil trunk piston-solid injection-type
-DSG6 4 Cycle.

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 12" Stroke 15"
or 4 stroke cycle 4 Maximum approved BHP 450 450 RPM Corresponding MIP Maximum pressure 670 LB/in.
el. heavy oil Are cylinders arranged in Vee or other special formation? no If so, No. of
ankshafts per engine - Is engine of opposed piston type? no No. and type of mechanically driven scavenge pumps or blowers
er engine - No. of exhaust gas driven blowers or superchargers per engine - Is welded construction
ed for: Bedplate? no Entablature? no Total internal volume of crankcase (if 20 cu. ft. or over) - No. and total area of
ankcase explosion relief devices one on each Cyl. Are flame guards or traps fitted? yes Cooling medium for: Cylinders fresh water
istons none No. of attached pumps: F.W. cooling none S.W. cooling none Lubricating oil 1 How is engine started? compr. air

Material of
meter of rotor HAFTING. Is a damper or detuner fitted? no No. of main bearings 8 Are bearings of ball or roller type? no Distance between
and purpose of mer edges of bearings in way of cranks 11.375" Crankshaft: ~~Ball, semi-ball~~ solid. Material of crankshaft steel Approved
ow long at full minimum tensile strength - Dia. of pins 8" Journals 8 1/2" Breadth of webs at mid throw 12 1/2" Axial
d? thickness 2 5/16 If shrunk, radial thickness around eyeholes - Dia. of flywheel - Weight - Are balance
eights fitted? no Total weight - Rad. of gyration - Dia. of flywheel shaft -
as each engine been tested in shop? - How long at full power? - Was it tested with driven machinery attached? - Was the
overning tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) -
Date of approval of shafting - Identification marks on shafting -
Particulars of driven machinery 2 off DC generators made by General Electric Co. - Schenectady each
250 KW - 1042 Amp. - 120/240 Volt - Generator Nos.: - 2089509-10 - Compound Wound
Port and No. of Certificate for Starting Air Receivers -

Material of
of crankcase 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
A small diagram should be attached showing gas cycle) IP at 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
Date of approval of plans Identification marks Particulars of driven machinery

Manufacture ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over
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)

tary's letters. y as possible. Manufacturer

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

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.

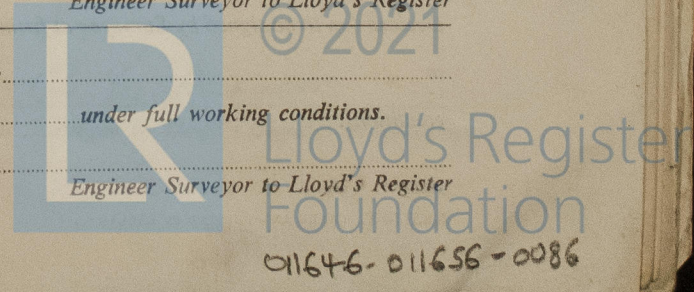
The above auxiliary generating engines have been built to the requirements of American
Bureau of Shipping and have been in operation since 1944 and also accepted by Det Norske
Veritas.
Both engines have now been examined throughout and under full working condition and found
Good. - In my opinion the engines is such as could be accepted by the Committee for
Classification.

yd's Register Survey Fee NONE
xpenses
Date when a/c rendered

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

yd's Register Engineer Surveyor to Lloyd's Register

J. E. Larsen
Engineer Surveyor to Lloyd's Register



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