TRI. RPT. No. 14893

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10 MAR 1958

of writing report 4th March, 1958 Received London - Port of Augsburg No. 1078

ey held at Munich No. of visits two First date 20th Jan. Last date 24th Febr. 1958

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

me of Ship "ESSO SOUTHAMPTON" Owners (Or Consignees) Esso Petroleum-CO., London

Contract No. if name unknown).

p Built at Trieste by Cantieri Riuniti dell' Adriatico when 1958 Yard No. 1839

xiliary Engines ~~or Gas Turbines~~ made at München by Süddeutsche Bremsen A.G. when 1958 Eng. Nos. 95694

tal No. of sets and description (including type name) 1 x TRHS 518 A supercharged

TERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 8 Dia. of cylinders 140 mm Stroke 180 mm

or 4 stroke cycle 4 Maximum approved ~~BHP~~ PS 255 at 1200 RPM Corresponding MIP 7,78 kg/cm² Maximum pressure 60 kg/cm²

el Diesel 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

r engine - No. of exhaust gas driven blowers or superchargers per engine one Is welded construction

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

ankcase explosion relief devices - Are flame guards or traps fitted? - Cooling medium for: Cylinders water

istons - No. of attached pumps: F.W. cooling - S.W. cooling 1 Lubricating oil 1 How is engine started? by air

HAFTING. Is a damper or detuner fitted? yes No. of main bearings 9 Are bearings of ball or roller type? no Distance between

ner edges of bearings in way of cranks 136 mm Crankshaft: ~~Built, semi-built,~~ solid. Material of crankshaft 37 Cr 4 SM Steel Approved

inimum tensile strength 85 kg/mm² Dia. of pins 100 mm Journals 115 mm Breadth of webs at mid throw 152 mm Axial

hickness 32 mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 590 mm Weight 103 kgs. Are balance

eights fitted? yes Total weight 31,2 kgs. Rad. of gyration 106,5 mm Dia. of flywheel shaft -

Has each engine been tested in shop? yes How long at full power? 5 h Was it tested with driven machinery attached? - Was the

governing tested and found satisfactory? yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 18.11.57

Date of approval of shafting 15.12.51 Identification marks on shafting LLOYD'S AUG A 94 HKS 8.10.57 825 188/83

Particulars of driven machinery 187,5 KVA

Port and No. of Certificate for Starting Air Receivers 120 l 12-8422 Certificate No. 56/402 KLN. C.

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 " 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

Date of approval of plans Identification marks Particulars of driven machinery

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Trieste Cert. N°.3824

For generators under 100 Kw., has Makers' Certificate been obtained? - Are Certificates attached? ~~Yes~~

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

SÜDDEUTSCHE BREMSEN AG!, München

ppa. i. V. Manufacturer

Is this machinery duplicate of a previous case? no 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.

This heavy oil auxiliary engine has been constructed under special survey in accordance with the require-
ments of the Rules and otherwise with the approved plans. The material used in the construction is good and
the workmanship was found satisfactory. The engine has been tested running on makers' test bed under full-,
over-, and partial loads with satisfactory results. In my opinion the engine can be recommended for the
notation ✠ L.M.C. (with date) when the whole machinery has been satisfactorily fitted on board.

rame 40.-
Survey Fee DM 325.-
ed trial 60.-
Expenses 30.- Total DM 455.-

Date when a/c rendered 14.3.1958

G. Trinks
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 "ESSO SOUTHAMPTON".
at Trieste in a proper manner and found satisfactory when tested on the (date) 1st & 27th under full working conditions.
Nov, 1958.

J. J. Wilson
Engineer Surveyor to Lloyd's Register

EINLAGE Nr. 571 EINLAGE Nr. 597

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