

RECEIVED

JUL 1951

D.O. REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13491  
JUL 1951

Received at London Office  
Writing Report 4<sup>th</sup> June 1951 When handed in at Local Office 19 Port of Copenhagen  
Survey held at Copenhagen Date, First Survey 1<sup>st</sup> Sept. 1950 Last Survey 18<sup>th</sup> April 1951  
Number of Visits 14  
Type of vessel Single on the Twin Triple Quadruple Screw vessel MOTOR TANKER "COMODORO RIVADAVIA"  
By whom built P. Smith Yard No. 599 When built  
Port belonging to  
Eng. 4635 Contract No. 4636 When made 1951  
By whom made P. Burmeister & Wain  
Marsk - & Skibstøggerne  
Contract No. When made  
Sets 2 Engine Brake Horse Power 24345 M.N. as per Rule 2486 Total Capacity of Generators Kilowatts  
Intended for essential services yes

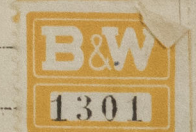
ENGINES, &c.—Type of Engines Heavy oil engines vertical, trunk piston type 2 or 4 stroke cycle 4 Single or double acting Single  
Mean pressure in cylinders 49 1/2 lb./sq. in. Diameter of cylinders 245 7/8 in. Length of stroke 400 7/8 in. No. of cylinders 7 No. of cranks 7  
Firing order in cylinders 1-2-4-6-7-5-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 315 7/8 in.  
a bearing between each crank yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 1135 kgm<sup>2</sup> Revolutions per minute 425  
Weight 1226 kg Means of ignition compression Kind of fuel used Heavy oil  
Shaft, dia. of journals 1300 7/8 in. as per Rule 151 7/8 in. as fitted 170 7/8 in. Crank pin dia. 170 7/8 in. Crank Webs Mid. length breadth 278 7/8 in. Thickness parallel to axis 90 7/8 in.  
Mid. length thickness 90 7/8 in. Thickness round eye hole 72 5/8 in.  
Intermediate Shafts, diameter as per Rule as fitted General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

Means provided to prevent racing of the engine when decelerated yes Means of lubrication forced Kind of damper if fitted  
cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged  
Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel  
Driving Oil Pumps, No. and size 1 off 7.3 1/2 in. Diameters 216 7/8 in. - 192 7/8 in. Stroke 160 7/8 in. Driven by the engine  
Compressors, No. 1 off 250 m<sup>3</sup>/h No. of stages 2 Diameters 216 7/8 in. - 192 7/8 in. Stroke 160 7/8 in. Driven by the engine  
Suctioning Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey yes State No. of Report or Certificate 1036  
receiver, which can be isolated, fitted with a safety valve as per Rule yes  
e internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces  
e a drain arrangement fitted at the lowest part of each receiver yes  
Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness  
ss, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules  
g Air Receivers, No. 1 Total cubic capacity 350 litres Internal diameter 410 7/8 in. thickness 10 7/8 in.  
ss, lap welded or riveted longitudinal joint welded Material SM Steel Range of tensile strength Working pressure by Rules 30 1/2 lb./sq. in.  
Approved

ELECTRIC GENERATORS:—Type  
ire of supply volts. Full Load Current Amperes Direct or Alternating Current  
rnatng current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown  
l off Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field  
l terminals accessible, clearly marked, and furnished with sockets Are they so spaced  
lded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule  
generators are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements  
generators are 100 kw. or over have they been built and tested under survey  
s of driven machinery other than generator  
VS.—Are approved plans forwarded herewith for Shafting yes Receivers yes Separate Tanks  
(If not, state date of approval) yes E 11/7-49 Armature shaft Drawing No. 209902  
Torsional Vibration characteristics if applicable been approved yes E 11/7-49  
(state date of approval)

RE GEAR As pr. Rules.



The foregoing is a correct description,

Manufacturer.

Signature: P. Smith



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Dates of Survey while building  
During progress of work in shops - - 1/9-26/10-8/11-22/11-50-29/2-21/3-30/3-5/4-9/4-10/4-11/4-12/4-13/4-19/4-51  
During erection on board vessel - -  
Total No. of visits 14  
Dates of Examination of principal parts—Cylinders 5/4-10/4 Covers 5/4-10/4 Pistons 5/4-10/4 Piston rods  
Connecting rods 29/2 Crank and Flywheel shafts 29/2 Intermediate shafts  
Journals: 32, 5 1/8"  
Material Crank throws: Cast SM Steel. Tensile strength Crank throws: 29,000 lb  
Crank shaft Journals: 35, 4% Identification Marks Lloyd's No 8200-01. GS. 20  
Elongation Crank throws: 38, 4%  
Flywheel shaft, Material Identification Marks  
Identification marks on Air Receivers No. 1036. Lloyd's Test 60 Atm. W.P. 30 Atm. GS 26-10-50.

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Yard 596 (Smit 6) Yard 597 (Smit 7) Yard 598 (Smit 8) Cpn. Rept 12939 & Cpn. Rept 13149 & Cpn. Rept 13150

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These engines have been constructed under special survey in accordance with the requirements of the Rules, approved plans and the Secretary's letters E dated 22/10-48, 11/7-49 and 3/8-49. The material has been tested as required by the Rules and the workmanship is good. The engines have been tested under working condition in the shop and found to work satisfactorily.

The amount of Fee ... Kr. 1032,00.  
Air receiver Kr. 80,00.  
Travelling Expenses (if any) £  
When applied for 29/6 19.51  
When received 19.

Committee's Minute FRI. 13 JUN 1952  
Assigned See F. E. Mch. rpt. Ref 34771

J. Sherrin  
Surveyor to Lloyd's Register of Shipping.  
Lloyd's Register Foundation