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AUG 1950

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# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 17429

18 AUG 1950

Received at London Office

Date of writing Report 12th Aug 1950 When handed in at Local Office 19 Port of Amsterdam

No. in Survey held at Amsterdam Date, First Survey 8th Sept 1949 Last Survey 7th Aug 1950  
g. Book. Number of Visits 5

Single on the Twin Triple Quadruple Screw vessel Tons Gross Net

uilt at Rotterdam By whom built Messrs. P. Smid Jr Yard No. 599 When built

25. Owners Jacimientos Petroliferos Fiscales Port belonging to Buenos Aires

l Engines made at Amsterdam By whom made Kromhout Motorenfabriek ENG Contract No. 11593 When made 1950

erators made at Rugby By whom made The British Thomson-Houston Co. Contract No. 620018/1/64 When made 1949

. of Sets 1 Engine Brake Horse Power 50 Nom. Horse Power as per Rule 12 1/2 Total Capacity of Generators 30 Kilowatts.

IL ENGINES, &c.—Type of Engines Heavy oil eng. type 5 L 5 DV 2 or 4 stroke cycle 4 Single or double acting Single

aximum pressure in cylinders 5.5 kg/cm<sup>2</sup> Diameter of cylinders 100 mm Length of stroke 152.4 mm No. of cylinders 5 No. of cranks 5

pan of bearings, adjacent to the Crank, measured from inner edge to inner edge 121 mm Is there a bearing between each crank yes

evolutions per minute 1000 Flywheel dia. 660 mm Weight 240 kg Means of ignition compression Kind of fuel used Diesel oil

rank Shaft, dia. of journals as per Rule as approved Crank pin dia. 73 mm Crank Webs Mid. length breadth 26 mm Thickness parallel to axis 26 mm

as fitted 30 mm central hole 25 mm central hole Mid. length thickness 10.9 mm Thickness round eyehole 26 mm

lywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners no liners

a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced

re the cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes

ooling Water Pumps, No. 1 rotating type cap. 1.45 l/s Is the sea suction provided with an efficient strainer which can be cleared within the vessel

ubricating Oil Pumps, No. and size 1 toothed wheel pump cap. 0.6 l/s

ir Compressors, No. 1 Hoch's compressor delivered with cert. no 5936 Port of Rotterdam d.d. 4-4-50 No. of stages 2 Diameters 80-90 mm Stroke 100 mm Driven via clutch

avenging Air Pumps, No. Diameter Stroke Driven by

IR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate

each receiver, which can be isolated, fitted with a safety valve as per Rule

in the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

there a drain arrangement fitted at the lowest part of each receiver

igh Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

eamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ENGINE IS STARTED BY HAND Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

eamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type compound wound - drip proof

ressure of supply 220 volts Full Load Current 139 Amperes Direct or Alternating Current D.C.

f alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

n and off yes Generators, are they compounded as per Rule yes is an adjustable regulating resistance fitted in series with each shunt field yes

re all terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced

r shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

f the generators are under 100 kw. full load rating, have the makers supplied certificates of test yes and do the results comply with the requirements yes

f the generators are 100 kw. or over have they been built and tested under survey

PLANS.—Are approved plans forwarded herewith for Shafting 2-7-49 Receivers Separate Tanks

PARE GEAR No be checked on board

The foregoing is a correct description,  
KROMHOUT MOTOREN FABRIEK  
D. Goedkoop Jr. N.V. Amsterdam  
f. Winderbaal Manufacturer.



4<sup>c</sup> 17429.

Dates of Survey while building { During progress of work in shops - - 2/9-1949 - 1/3 - 1/6 - 2/6 - 7/8-1950  
During erection on board vessel - -  
Total No. of visits 5

Dates of Examination of principal parts—Cylinders 9-6-50 Covers 9-6-50 Pistons 9-6-50 Piston rods ✓  
Connecting rods 9-6-50 Crank and Flywheel shafts 1-6-50 Intermediate shafts ✓

Crank shaft { Material S. etc. Steel Tensile strength 52.4 2/4"  
Elongation 28% Identification Marks LLOYDS NO. DF 3375  
ILW. AB 1-6-50

Flywheel shaft, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes Identification Marks Eng 11592

Identification marks on Air Receivers

Is this machinery duplicate of a previous case If so, state name of vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This engine has been built under Special Survey in accordance with the approved plans, Secretary letter and Society Rules.  
The materials have been tested as required and the Workmanship was found good.  
The complete set has been tested under full load condition on Chalmers testbed and found working satisfactorily and afterwards dispatched to Rotterdam.  
This compressor-generator set merits in my opinion the approval of the Committee.  
(copy cert of crankshaft and Chalmers testbed of dynamo attached).

The amount of Fee ... £ fl 90 { When applied for 16.8 19.50  
Travelling Expenses (if any) £ fl 2;- { When received 19

Committee's Minute FRI 15 JUN 1951  
Assigned See F.E. Mclay rep.