

4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 25461

Received at London Office.

5 AUG 1949

of writing Report 4 July 1949 When handed in at Local Office 218 1949 Port of ANTWERP  
 in Survey held at SSLESSIN LIEGE Date, First Survey 19-3-48 Last Survey 14-3-1949  
 Number of Visits 4

on the Single Screw vessel m/t "BELGIAN PRIDE" Tons { Gross 872  
Triple Net 496.9  
Quadruple

at Hoboken By whom built Messrs. J. M. Cockrell Yard No. When built

rs. Belgian Gulf Oil Co. Port belonging to Antwerp

engines made at Belgian Liege By whom made Atel. de Const. La Meuse Contract No. 4307 When made 1948

rators made at Liverpool By whom made Campbell & Sherrwood Contract No. When made 1948

f Sets one Engine Brake Horse Power 60 M.N. as per Rule 13 Total Capacity of Generators 40 Kilowatts.

t intended for essential services Yes

ENGINES, &c.—Type of Engines La Meuse C3 2 or 4 stroke cycle 4 Single or double acting single

um pressure in cylinders 60 kg/cm<sup>2</sup> Diameter of cylinders 150 Length of stroke 170 No. of cylinders 3 No. of cranks 3

indicated pressure 8 kg/cm<sup>2</sup> Firing order in cylinders 1-2-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 125

re a bearing between each crank Yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 2.55 Revolutions per minute 1000

heel dia. 700 Weight 200 kg. Means of ignition Cum. air Kind of fuel used Diesel oil

as per Rule 110 Crank pin dia. 110 Crank Webs Mid. length breadth 160 Thickness parallel to axis shrunk

as fitted 110 Mid. length thickness 42 Thickness round eyehole

as per Rule 110 Intermediate Shafts, diameter as per Rule 110 General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

as fitted 110 as fitted 110

means provided to prevent racing of the engine when declutched Yes Means of lubrication forced Kind of damper if fitted none

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

ing Water Pumps, No. one of 40 lit/min Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

ating Oil Pumps, No. and size one of 37 lit/min

ompressors, No. — No. of stages — Diameters — Stroke — Driven by —

enging Air Pumps, No. — Diameter — Stroke — Driven by —

RECEIVERS:—Have they been made under Survey No Bureau Veritas State No. of Report or Certificate 391-392

h receiver, which can be isolated, fitted with a safety valve as per Rule Fitted with fusible plug

he internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces detachable lead block

re a drain arrangement fitted at the lowest part of each receiver Yes

Pressure Air Receivers, No. none Cubic capacity of each — Internal diameter — thickness —

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

ing Air Receivers, No. Two Total cubic capacity 100 lit. each Internal diameter 250 thickness 4

less, lap welded or riveted longitudinal joint seamless Material S.M. steel Range of tensile strength — Working pressure by Rules 50 kg/cm<sup>2</sup>

CTRIC GENERATORS:—Type Campbell & Sherrwood - 40 kw. prof

ure of supply 110 volts. Full Load Current 364 Amperes. Direct or Alternating Current direct

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

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

ll terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced

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

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

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 — Receivers — Separate Tanks —

(If not, state date of approval)

Torsional Vibration characteristics if applicable been approved — Armature shaft Drawing No. —

(state date of approval)

RE GEAR As per Rules

The foregoing is a correct description,

Harmon

Manufacturer.



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003778-003787-0217

Dates of Survey while building

During progress of work in shops - -  
During erection on board vessel - -  
Total No. of visits - -

19-3-48

26-3-48

16-2-49

14-2-49

4

Dates of Examination of principal parts—Cylinders 26-3-48 Covers 26-3-48 Pistons 26-3-48 Piston rods -

Connecting rods 26-3-48 Crank and Flywheel shaft 26-3-48 Intermediate shafts -

Crank shaft Material S.M. steel  
Elongation 20%

Tensile strength 65/70 kg/mm<sup>2</sup>

Identification Marks -

Flywheel shaft, Material -

Identification Marks -

Identification marks on Air Receivers.

B.V. 4-12-48  
P.H. 30 K.  
P.E. 45 K.  
N° 291

B.V. 4-12-48  
P.H. 30 K.  
P.E. 45 K.  
N° 292

Is this machinery duplicate of a previous case.

If so, state name of vessel.

No. THORSHEDER A.T. R/L. N° 25146

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

The hardness numeral obtained with a Poldi comparator from the crankshaft was found to give an equivalent numeral indicating that the material was within the above range of tensile strength.

The machinery has been completely opened out and found in good condition.

Satisfactory full load and overload running tests of the machinery were witnessed.

The machinery is eligible, in my opinion, to be incorporated in the class assigned to the machinery of this vessel.

The amount of Fee ... £ 1060-

Travelling Expenses (if any) £ 500-

When applied for 218 1949

When received 19

Committee's Minute

Assigned

FRI 9 SEP 1949

See J. Mack, R/L.

Surveyor to Lloyd's Register of Shipping.



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