

4c.

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 25461

Received at London Office

5 AUG 1949

of writing Report 4<sup>th</sup> July 1949 When handed in at Local Office 218 1949 Port of ANTWERP

in Survey held at ASSESSIN - LIEGE Date, First Survey 19-3-48 Last Survey 14-3-1949

on the Single Screw vessel m/t "BELGIAN PRIDE" Tons { Gross 572 Net 496.9

at Hoboken By whom built Messrs. Jm. Cockrill Yard No. \_\_\_\_\_ When built \_\_\_\_\_

rs. Belgian Gulf Oil Co. Port belonging to Antwerp

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

ators made at Limerpool By whom made Campbell & Isherwood 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

imum 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 175

ere a bearing between each crank Yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 2.25 Revolutions per minute 1000

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

Shaft, dia. of journals 110 Crank pin dia. 110 Crank Webs Mid. length breadth 160 Thickness parallel to axis \_\_\_\_\_

heel Shaft, diameter \_\_\_\_\_ Intermediate Shafts, diameter \_\_\_\_\_ 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 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

ng 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 \_\_\_\_\_

nging Air Pumps, No. \_\_\_\_\_ Diameter \_\_\_\_\_ Stroke \_\_\_\_\_ Driven by \_\_\_\_\_

RECEIVERS:—Have they been made under Survey No - made to 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 \_\_\_\_\_

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

less, lap welded or riveted longitudinal joint Beamless Material S.H. steel Range of tensile strength \_\_\_\_\_ Working pressure by Rules 20 kg/cm<sup>2</sup>

CTRIC GENERATORS:—Type Campbell & Isherwood - Kemp proof

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 \_\_\_\_\_

NS.—Are approved plans forwarded herewith for Shafting \_\_\_\_\_ Receivers \_\_\_\_\_ Separate Tanks \_\_\_\_\_

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

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 - - 19-3-48 26-3-48  
 { During erection on board vessel - - 16-2-49 14-3-49  
 Total No. of visits H

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 shafts 26-3-48 Intermediate shafts -

Crank shaft { Material S.M. steel Tensile strength 65/70 kg/cm<sup>2</sup>  
 { Elongation 20% Identification Marks -

Flywheel shaft, Material - Identification Marks -

Identification marks on Air Receivers. BV. 4-12-47 PH. 30K. PE. 45K. N: 291  
 BV. 4-12-47 PH. 30K. PE. 45K. N: 292

Is this machinery duplicate of a previous case. Yes If so, state name of vessel M/V THORSHEIMER Ant. Reg. N: 25146

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

The hardness numeral obtained with a Poldi comparator for 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-: When applied for 27 1949  
 Travelling Expenses (if any) £ 500-: When received 19

*J. Tanker*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
 Assigned See J. mach. 111.

501,48-T. (MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

