

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 24353

Report No. 29.11.1950 When handed in at Local Office 15 NOV 1950 Port of GRIMSBY. Received at London Office 17 NOV 1950

Survey held at GRIMSBY. Date, First Survey See Rpt. 4b. Last Survey 5 - Number of Visits -

By whom built A/S Rodby Havns Jernskibs Yard No. - When built 1920
Screw vessel M/V. "AFRICAN QUEEN" (ex "BADGER") Tons Gross 1966
Net 1252

By whom made Ruston & Hornsby, Ltd. Contract No. 12/490180-1-2. When made -
By whom made The Macfarlane Eng. Co. Ltd. Contract No. - When made -

Engine Brake Horse Power 100 per engine Nom. Horse Power as per Rule - Total Capacity of Generators 187.5 Kilowatts.

Type of Engines See Nottingham Rpt. No. 748 (4c.) 2 or 4 stroke cycle - Single or double acting -

in cylinders - Diameter of cylinders - Length of stroke - No. of cylinders - No. of cranks -

adjacent to the Crank, measured from inner edge to inner edge - Is there a bearing between each crank -

Flywheel dia. - Weight - Means of ignition - Kind of fuel used -

as per Rule - Crank pin dia. - Crank Webs Mid. length breadth - Thickness parallel to axis -
as fitted - Mid. length thickness - shrunk Thickness around eyehole -

Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners -
as fitted -

other arrangement fitted to prevent racing of the engine when declutched - Means of lubrication -

filled with safety valves - Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -

Pumps, No. Two. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.

1 Pumps, No. and size Two. 1 - 557 gals. per hr, 1 - 4 tons per hour (spare)

Stages, No. - No. of stages - Diameters - Stroke - Driven by -

Pumps, No. - Diameter - Stroke - Driven by -

RECEIVERS: Have they been made under Survey Yes. State No. of ~~Receiver~~ Certificate C.10197

which can be isolated, fitted with a safety valve as per Rule Yes.

surfaces of the receivers be examined Yes. What means are provided for cleaning their inner surfaces Inspection doors.

arrangement fitted at the lowest part of each receiver Yes.

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

welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Receivers, No. 3. Total cubic capacity 15 cu. ft. Internal diameter 18" thickness 5/16"

welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength - Working pressure by Rules 300 lbs/sq. in.

GENERATORS: Type See Nottingham Rpt. No. 748.

Supply - volts. Full Load Current - Amperes. Direct or Alternating Current -

regulating system, state the periodicity - Has the Automatic Governor been tested and found as per rule when full load is suddenly thrown on and off -

are they compounded as per rule - is an adjustable regulating resistance fitted in series with each -

Are all terminals accessible, clearly marked, and furnished with sockets -

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

generators under 100 kw. full load rating, have the Makers supplied certificates of test - and do the results comply with the requirements -

generators 100 kw. or over have they been built and tested under survey -

approved plans forwarded herewith for Shafting - Receivers - Separate Tanks -
(If not, state date of approval)

REMARKS: The vessel has been provided with spare gear in accordance with the Rule
requirements and to cover extended voyages. For full particulars please see attached list.

Is the foregoing a correct description, - Manufacturer. -



Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders - Covers - Pistons - Piston rods -
 Connecting rods - Crank and Flywheel shafts - Intermediate shafts -
 Crank and Flywheel shafts, Material - Identification Marks -
 Intermediate shafts, Material - Identification Marks -
 Identification marks on Air Receivers No. H. 632 T.P. 600 lbs/sq.in. W.P. 300 lbs/sq.in. TDS 18.1.5
 H. 633 T.P. 600 lbs/sq.in. W.P. 300 lbs/sq.in. TDS 18.1.5
 H. 634 T.P. 600 lbs/sq.in. W.P. 300 lbs/sq.in. TDS 18.1.5

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 machinery has been built under Special Survey in accordance with approved and regulations of the Society.

Workmanship and material used being good.

The generators have been fitted in this vessel, tested under working conditions found satisfactory.

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 (The above reports are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... See Rpt. 9. £ : :
 Travelling Expenses (if any) £ - : - :
 When applied for, 19.....
 When received, 19.....

TUES. 12 JUN 1951

Committee's Minute

Assigned

E. V. Rux
 Surveyor to Lloyd's Register of Shipping.