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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

753957

No. 753957

Received at London Office 27 APR 1950

Date of writing Report 27 APR 1950 When handed in at Local Office 24 4 1950 Port of Glasgow.

No. in Survey held at Glasgow. Date, First Survey 6. 3. 50 Last Survey 14. 4. 1950

Reg. Book. Single on the Twin Triple Quadruple Screw vessel "BRITISH PEER" Number of Visits 9 Tons Gross Net

Built at Port Glasgow. By whom built James Fife & Sons Ltd. Yard No. 445 When built 1950

Owners British Tanker Company Ltd. Port belonging to London.

Oil Engines made at Glasgow. By whom made British Soda Engine Ltd. Contract No. 159/60 When made 1950

Generators made at Sunderland. By whom made Sunderland Eng. & Elec. Co. Ltd. Contract No. 1 When made 1950

No. of Sets 2. Engine Brake Horse Power 112.2 M.N. as per Rule 56 Total Capacity of Generators 150 Kilowatts.

Set intended for essential services.

OIL ENGINES, &c.—Type of Engines Heavy oil Engine N. S. S. E. Lp. 2 or 4 stroke cycle 2. Single or double acting Single

Maximum pressure in cylinders 925 lb/sq. in. Diameter of cylinders 180 in. Length of stroke 300 in. No. of cylinders 3 No. of cranks 3

Mean indicated pressure 85 lb/sq. in. Firing order in cylinders 1. 3. 2. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 225 in.

Is there a bearing between each crank? No. Moment of inertia of flywheel (16 m² or Kg.-cm.²) 250 lb.-sq. ft. Revolutions per minute 500

Flywheel dia. 800 in. Weight 630 lb. Means of ignition Comp. Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 2 as shown as fitted 125 in. Crank pin dia. 120 in. Crank Webs Mid. length breadth 2 1/2 in. Thickness parallel to axis 1/2 in.

Mid. length thickness 5/8 in. shrunk Thickness round eyehole 1/2 in.

Intermediate Shafts, diameter as per Rule 1 as fitted 1 1/2 in. General armature, moment of inertia (16 m² or Kg.-cm.²) 1

Means provided to prevent racing of the engine when declutched. No. Means of lubrication Forced Kind of damper if fitted 1

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

Cooling Water Pumps, No. 0. Is the sea suction provided with an efficient strainer which can be cleared within the vessel. 1

Lubricating Oil Pumps, No. and size 0. 1500 gallons per hour.

Compressors, No. 0. Blower No. of stages 1 Diameters 1 Stroke 1 Driven by 1

Exhausting Air Pumps, No. 1 Diameter 1 Stroke 1 Driven by 1

AIR RECEIVERS:—Have they been made under Survey. No. State No. of Report or Certificate 836/81. 836/59.

Each receiver, which can be isolated, fitted with a safety valve as per Rule. No.

Are the internal surfaces of the receivers be examined. No. What means are provided for cleaning their inner surfaces. Removal of rust.

Is there a drain arrangement fitted at the lowest part of each receiver. No.

High Pressure Air Receivers, No. 1 Cubic capacity of each 1 Internal diameter 1 thickness 1

Seamless, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1

Starting Air Receivers, No. 2 Total cubic capacity 70 cu. in. Internal diameter 279 in. thickness 15 in.

Seamless, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1

ELECTRIC GENERATORS:—Type Open Lp. dist. prop. Pressure of supply 110 volts. Full Load Current 682.5 Amperes. Direct or Alternating Current D.C.

Alternating current system, state the periodicity. 1 Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

and off. No. Generators, are they compounded as per Rule. No. is an adjustable regulating resistance fitted in series with each shunt field. No.

Are all terminals accessible, clearly marked, and furnished with sockets. No. Are they so spaced

shielded that they cannot be accidentally earthed, short circuited, or touched. No. Are the lubricating arrangements of the generators as per Rule. No.

Are the generators under 100 kw. full load rating, have the makers supplied certificates of test. 1 and do the results comply with the requirements. 1

Are the generators 100 kw. or over have they been built and tested under survey. No.

Are there any driven machinery other than generator. 1

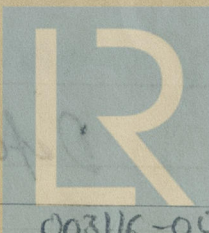
ANS.—Are approved plans forwarded herewith for Shafting. No. Receivers. No. Separate Tanks. 1

Are the Torsional Vibration characteristics if applicable been approved. No. 29/4/50 to 500 RPM. Armature shaft Drawing No. 1

ARE GEAR as per Rule requirements.

The foregoing is a correct description,

C. Scott B.P.E. Manufacturer.



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Is this machinery duplicate of a previous case Yes If so, state name of vessel U.S. "British Patriot" Geo. upl. No. 74974.

This engine has been effectually installed in the vessel & tested under full working conditions with satisfactory results

Charles Y. Hunt
Greenock
25/5/50

When applied for.....19

When received.....19

GLASGOW

Deferred for comp.

Surveyor to Lloyd's Register of Shipping.

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