

RECEIVED

Rep. No. 4951

IN D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 17956

Received at London Office

JAN 1951

Date of writing Report 28th Dec. 1950. When handed in at Local Office 10th January 51. Port of Gothenburg

No. in Survey held at Gothenburg Date, First Survey 22nd June Last Survey 27th December 1950.

Reg. Book. 51410 on the Twin Screw vessel "A N N A K N U D S E N" Number of Visits 14

Built at Gothenburg By whom built A-B. Götaverken Yard No. 442 When built 1931

Owners D/S A/S Jeanette Skinner Port belonging to Haugegrund

Oil Engines made at Gothenburg By whom made A-B. Götaverken Engine No. 2037, 2349-50 When made 1950

Generators made at Västerås By whom made A.S.E.A. Generator No. 50703, 53815 When made ---

No. of Sets 3 Engine Brake Horse Power 2 x 100 M.N. as per Rule 100 Total Capacity of Generators 265 Kilowatts.

Is Set intended for essential services Yes

OIL ENGINES, &c.—Type of Engines Heavy oil trunk type 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 240 mm. Length of stroke 360 mm. No. of cylinders 3 No. of cranks 3

Mean indicated pressure 6.8 kg/cm² Firing order in cylinders 1-3-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 301 mm.

Is there a bearing between each crank Yes Moment of inertia of flywheel 5030 Kg.cm.sec² 5170 Revolutions per minute 400

Flywheel dia. 1250 mm. Weight 2245 kgs. Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals 190 mm. Crank pin dia. 150 mm. Crank Webs Mid. length breadth 210 mm. Thickness parallel to axis ---

Flywheel Shaft, diameter 190 mm. Intermediate Shafts, diameter --- General armature, moment of inertia 764

Are means provided to prevent racing of the engine Yes Means of lubrication Forced Kind of damper if fitted None

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

Cooling Water Pumps, No. cooling water system 1 x 3920 litres per hour, Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 x 2120 litres per hour.

Air Compressors, No. 1 No. of stages 2 Diameters 90/235 mm. Stroke 220 mm. Driven by the engine

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

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

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

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

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

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

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

Starting Air Receivers, No. --- Total cubic capacity --- Internal diameter --- thickness ---

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

ELECTRIC GENERATORS:—Type Drip proof compound

Pressure of supply 220 volts. Full Load Current 300 Amperes. Direct or Alternating Current Direct current

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

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

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

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

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

If the generators are 100 kw. or over have they been built and tested under survey Please see note

Details of driven machinery other than generator Generator only

Generator and compressor Sec. letter 6.4.1950.

PLANS.—Are approved plans forwarded herewith for Shafting Sec. letter 8.3.1950. Receivers --- Separate Tanks ---

Have Torsional Vibration characteristics if applicable been approved Sec. letter 6.4.1950. Armature shaft Drawing No. 89021

(state date of approval) Sec. letter 8.3.1950

SPARE GEAR As per Rule supplied

The foregoing is a correct description, and the particulars of the installation as fitted are as approved for torsional vibration characteristics.

AKTIEBLAGET GÖTAVERKEN Manufacturer.

VEGIAN

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Dates of Survey while building { During progress of work in shops - - } 22nd June - 27th December, 1950.
 { During erection on board vessel - - }
 Total No. of visits 14.

Dates of Examination of principal parts—Cylinders 29/9, 14 and 24/10 1950 Covers 29/9, 14 and 24/10 1950 Pistons 2 and 14/11 1950 Piston rods ---
 Connecting rods 2 and 14/11 1950 Crank ~~and~~ shafts 24/10 and 14/11 1950 Intermediate shafts ---

Crank shaft { Material S.M. Steel Tensile strength 48.1 - 53.9 kg/mm²
 { Elongation 35.0 - 32.0 % Identification Marks LLOYD'S No.456 SB 4.5.50 LLOYD'S No.1661-2 AS 11.5.50

Flywheel shaft, Material --- Identification Marks ---

Identification marks on Air Receivers -----

Is this machinery duplicate of a previous case No If so, state name of vessel ---

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

These auxiliary engines have been built under special survey in accordance with the Rules and approved plans. The workmanship and materials are good and test sheets in respect of crank shafts are attached.

The machinery has been securely fitted in the vessel under my inspection and to my satisfaction, tested under full working power conditions and found in order.

Note:

The generator connected to the 4-cyl. engine has been previously used in the m.s. "Martin Bakke", and generators connected to both 3-cyl. engines are the same as have been previously used in the vessel. All 3 generators overhauled in shop, examined under working conditions and found satisfactory.

The amount of Fee ... £r. 350:00 : { When applied for 10th Jan. 1951.
 Travelling Expenses (if any) £ --- : --- : --- { When received --- 19---

Committee's Minute THURS 8 MAR 1951
 Assigned

Tru Penton
 Surveyor to Lloyd's Register of Shipping.

