

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 17700.

Date of writing Report 28th August 1950. When handed in at Local Office 6th Sept. 1950. Port of Gothenburg

Received at London Office

No. in Survey held at Gothenburg Date, First Survey 25th May Last Survey 15th August 1950.

Reg. Book. 90155 on the ~~XXXX~~ ~~XXXXXX~~ Single Screw vessel "E T N E F J E L L" Number of Visits 10 Tons Gross 9832 Net 5753

Built at Gothenburg By whom built Eriksbergs Mek. Verkstads A-B. Yard No. 397 When built 1950

Owners A/S Dovrefjell Port belonging to Oslo

Oil Engines made at Trollhättan By whom made Nydqvist &amp; Holm A-B. Engine Nos 1270-1 When made 1949

Generators made at Västerås By whom made A.S.E.A. Generator Nos 2715764-5 When made 1950

No. of Sets 2 Engine Brake Horse Power 2 x 250 M.N. as per Rule 125 Total Capacity of Generators 330 Kilowatts.

Is Set intended for essential services Yes

OIL ENGINES, &amp;c.—Type of Engines Heavy oil engines, solid injection 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders. Diameter of cylinders. Length of stroke. No. of cylinders. No. of cranks.

Mean indicated pressure. Firing order in cylinders 1-3-2-4. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge.

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

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

Crank Shaft, dia. of journals as per Rule. Crank pin dia. Crank Webs Mid. length breadth. Thickness parallel to axis. shrunk. Mid. length thickness. Thickness round eye-hole.

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

Are means provided to prevent racing of the engine when declutched. Means of lubrication. Kind of damper if fitted. None fitted

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

Cooling Water Pumps, No. 2 x 240 litres, also connected to the main cooling system. Is the sea suction provided with an efficient strainer which can be cleared within the vessel. Yes

Lubricating Oil Pumps, No. and size.

Air Compressors, No. No. of stages. Diameters. Stroke. Driven by.

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

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Certificate 6577

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

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces. Soda and hot water

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

High Pressure Air Receivers, No. None 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. 1 Total cubic capacity 200 litres Internal diameter 400 mm. thickness 13 mm.

Seamless, lap welded or riveted longitudinal joint El. welded Material S.M. Steel Range of tensile strength 41-47 kg/mm<sup>2</sup> appd. Working pressure by Rules 40 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type Drip proof compound

Pressure of supply 220 volts. Full Load Current 750 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. Yes

Details of driven machinery other than generator. Generators only

PLANS.—Are approved plans forwarded herewith for Shafting No. 4.3.1949 Receivers No. 4.3.1949 Separate Tanks.

Have Torsional Vibration characteristics if applicable been approved Yes, London 4.3.1949 Armature shaft Drawing No. 6 B - 8132/1

SPARE GEAR As per Rule supplied.

The foregoing is a correct description,  
ERIKSBERGS MEK. VERKSTADS A-B

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - - - -  
During erection on board vessel - - - 25th May - 15th August, 1950.  
Total No. of visits..... 10

Dates of Examination of principal parts—Cylinders..... Covers..... Pistons..... Piston rods.....  
Connecting rods..... Crank and Flywheel shafts..... Intermediate shafts.....

Crank shaft { Material..... Tensile strength.....  
Elongation..... Identification Marks.....

Flywheel shaft, Material..... Identification Marks.....

Identification marks on Air Receivers.....  
No. 2955  
LLOYD'S TEST 64 KGS.  
WP 40 KGS.  
SW 24.3.49

Is this machinery <sup>similar to</sup> ~~known to~~ a previous case Yes If so, state name of vessel M/T "KOLLSTEIN"

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

These auxiliary engines have been fitted on board under our inspection and to our satisfaction and have been tested under full working power and found to work satisfactorily.

See also Gothenburg report No.17009.

5m. 4.48-T. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

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

Committee's Minute.....

Assigned.....

See Minute on L.B. Rpt.

FRI. 22 SEP 1950

Sven Borin Sig. Larsson  
Surveyor to Lloyd's Register of Shipping.  
Lloyd's Register Foundation