

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 3325.

19 APR 1954

Date of writing Report 5/4 1954. When handed in at Local Office 8/4 1954. Port of MALMÖ. Received at London Office.

No. in Survey held at MALMÖ. Date, First Survey 29/9-1953. Last Survey 31/3 1954. Reg. Book. Number of Visits 32.

36109s on the <sup>Single</sup> ~~Twin~~ <sup>Triple</sup> ~~Quadruple~~ Screw vessel Motortanker "H A V J A R L" Tons Gross 11,079 Net 6,408

Built at Malmö. By whom built Kockums Mek. Verkstads A.-B. Yard No. 366. When built 1954.

Owners A/S Havprins Port belonging to Oslo.

Oil Engines made at Malmö. By whom made Kockums Mek. Verkstads A.-B. Engine Contract No. 674/5 When made 1954.

Generators made at Västerås By whom made ASEA Generator Contract No. 3402016/7 When made 1953.

No. of Sets 2 Engine Brake Horse Power 2x375 M.N. as per Rule 150 Total Capacity of Generators 550 KVA Kilowatts.

Is Set intended for essential services Yes.

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

Maximum pressure in cylinders 50 kg/cm<sup>2</sup> Diameter of cylinders 285 mm. Length of stroke 420 mm No. of cylinders 6 No. of cranks 6

Mean indicated pressure 6,89 kg/cm<sup>2</sup> Firing order in cylinders 1-3-5-6-4-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 344 mm.

Is there a bearing between each crank Yes. Moment of inertia of flywheel (18 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 7650.10<sup>3</sup> Revolutions per minute 375

Flywheel dia. 1654 mm. Weight 1700 kg. Means of ignition Compression Kind of fuel used Heavy oil.

Crank Shaft, dia. of journals as fitted 170 mm. Crank pin dia. 170 mm. Crank Webs Mid. length breadth shrunk Mid. length thickness Thickness parallel to axis 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>) 1740.10<sup>3</sup>

Are means provided to prevent racing of the engine when declutched Yes. Means of lubrication Forced Kind of damper if fitted Not fitted.

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. 2x585 l/m. also connected to the main circulating system. 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 3.2 m<sup>3</sup>/h on each engine.

Air Compressors, No. None. No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. None. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey Yes. State No. of Report or Certificate 17094

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

Can the internal surfaces of the receivers be examined Yes. What means are provided for cleaning their inner surfaces Soda & 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. One. Total cubic capacity 200 litres Internal diameter 500 mm. thickness 13 mm.

Seamless, lap welded or riveted longitudinal joint E.W. Material S.M. Steel Range of tensile strength 46,5 kg/mm<sup>2</sup> Working pressure by Rules 30 kg/cm<sup>2</sup>

## ELECTRIC GENERATORS:—Type ASEA GA 125

Pressure of supply 400 volts. Full Load Current 397 Amperes. Direct or Alternating Current Alternating current.

If alternating current system, state the periodicity 50 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 is an adjustable regulating resistance fitted in series with each shunt field

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 Compressor.

PLANS.—Are approved plans forwarded herewith for Shafting London 6.10.53. Receivers Separate Tanks

Have Torsional Vibration characteristics if applicable been approved London 6.10.53. Armature shaft Drawing No. ASEA 382387

SPARE GEAR As per Rule supplied.

The foregoing is a correct description,

ROCKUMS  
MARISSKA VERKSTADS ANTIKLOAS

*P. Stenberij*

Manufacturer.



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