

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 167

Date of writing Report 10th Oct. 1952

When handed in at Local Office

19

Port of Augsburg

Received at London Office

27 OCT 1952

Survey held at Augsburg

Date, First Survey 7th March,

Last Survey 2nd Septemb 19 52

Number of Visits 37

on the Single
Twin
Triple
Quadruple
Screw vessel

MT. ASHAUG TORM.

Tons Gross
Net

at Uddevalla

By whom built Uddevallavarvet A/B

Yard No. 126

When built

rs. Uddevallavarvet A/B of Uddevalla

Port belonging to Sweden

Engines made at Augsburg

By whom made Maschinenfabrik Augsburg-Nürnberg A.G.

Engine No. 430794/5/6 When made 1952

Generators made at

By whom made

Generator No. When made

f Sets. 3 B.H.P. of each Set. 200 M.N. as per Rule Capacity of each Generator Kilowatts.

intended for essential services

ENGINES, &c.—Type of Engines M.A.N. Standard Type G5V33 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 51.2 atm. Diameter of cylinders 220 mm Length of stroke 330 mm No. of cylinders 5 No. of cranks 5

Indicated pressure 7.25 atm. Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 260 mm

have a bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 790 kgm² Revolutions per minute 515

Wheel dia. 1200 mm Weight 780 kg Means of ignition dir. inj. Kind of fuel used Diesel oil

Crank Shaft, Solid forged dia. of journals as per Rule 130 mm Crank pin dia. 130 mm Crank Webs Mid. length breadth 240 mm Thickness parallel to axis

Wheel Shaft, diameter as fitted Generator armature, moment of inertia (16 m² or Kg.-cm.²)

Means provided to prevent racing of the engine yes Means of lubrication forced Kind of damper if fitted

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

ing Water Pumps, No. and how driven Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 x 3.34 m³/h eff. each

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

Engines Air Pumps or Blowers, No. How driven

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

(other than main engines) full details of safety devices

The internal surfaces of the receivers be examined and cleaned

Are a drain arrangement fitted at the lowest part of each receiver

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

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

ing Air Receivers, No. Total cubic capacity Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

ELECTRIC GENERATORS:—Type

Voltage of supply volts. Full Load Current Amperes Direct or Alternating Current

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

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

All terminals accessible, clearly marked, and furnished with sockets Are they so spaced

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

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

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

List of driven machinery other than generator

INS.—Are approved plans forwarded herewith for Shafting appr. 30.3.51 Receivers Separate Tanks

Torsional Vibration characteristics if applicable been approved to be forw. by Yard Armature shaft Drawing No.

The spare gear required by the Rules been supplied yes

The foregoing is a correct description

Maschinenfabrik Augsburg-Nürnberg A.G.

Manufacturer.



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Lloyd's Register
Foundation

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Dates of Survey while building { During progress of work in shops - - 1952: March, 7.19.26.31; April, 3.4.10.16; May, 12.13.15; June, 5.6.7.9.19.21.24 July, 2.3.15.22.29.31; Aug., 1.5.11.12.14.18.19.21.26.28; Sept., 1.2:-
During erection on board vessel - - -
Total No. of visits thirty-seven

Dates of Examination of principal parts—Cylinders 5+11.8.52 Covers 14+18.8.52 Pistons 3.4.52 Piston rods - -

Connecting rods 3.4.52 Crank and Flywheel shafts 3.7.52 Intermediate shafts - -

Crank shaft	Material S.M.Steel			Tensile strength	Identification Marks		
	2180	2181	2182		1277A	1652A	1905A
Elongation	27.4	32.4	29.0	% on 50 mm	LLOYDS G.H. 3.7.52		

Flywheel shaft, Material - - Identification Marks - -

Identification marks on Air Receivers - -

Is this machinery duplicate of a previous case - - If so, state name of vessel Standard Type

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

These heavy oil auxiliary engines have been constructed under special survey in accordance with the approved plans, the ~~XXXXXXXXXX~~ Secretary's letters and instructions thereto. The material used in the construction is good and the workmanship was found to be satisfactory. The engines have been tested running on Makers test bed under full-, over-, and partial loads with good results.

In our opinion the vessel for which these engines are intended will be eligible for the notation **+** L.M.C. (with date) when the whole machinery has been satisfactorily fitted aboard the vessel and has been tried under full working conditions.

The amount of Fee	When applied for	...
3x testing + haulage	AM	750.-	When received	19
3x test bed trial	AM	180.-		
Travelling Expenses (if any)	AM	120.-		
3x test welded found. frame	AM	40.-		
		90.-		

TUES. 24 FEB 1953

Committee's Minute

Assigned

See P.E. mch. rpt.

W. L. L. L.

Surveyor to Lloyd's Register of Shipping.



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