

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 5 SEP 1933

Date of writing Report 4-8-33 19 When handed in at Local Office 15-8-33 19 Port of Kobe

No. in Survey held at Tama Date, First Survey 19-6-23 Last Survey 26-7-23 19
Reg. Book.

on the Single Screw Motor Ship "AZUMASAN MARU" (Number of Visits 7) Tons { Gross 7614

Built at Tama By whom built Inumitsu Bussan Kaisha Ltd. Yard No. 195 When built 1933

Owners Inumitsu Bussan Kaisha Ltd. Port belonging to Kobe

Electric Light Installation fitted by Inumitsu Bussan Kaisha Ltd. Contract No. 195 When fitted 1933

System of Distribution Two Wire Closed Circuit

Pressure of supply for Lighting 220 volts, Heating 220 volts, Power 220 volts.

Direct or Alternating Current, Lighting Direct Power Direct

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes

Generators, do they comply with the requirements regarding rating yes, are they compound wound yes

are they over compounded 5 per cent. yes, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel 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

Position of Generators Engine floor starboard side

is the ventilation in way of the generators satisfactory yes, are they clear of all inflammable material yes

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

and are the generators protected from mechanical injury and damage from water, steam or oil yes

are their axes of rotation fore and aft yes

Earthing, are the bedplates and frames of the generating plant efficiently earthed yes are the prime movers and

their respective generators in metallic contact yes

Main Switch Boards, where placed Main engine room, bottom platform, fore and aft side

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yes

are they protected from mechanical injury and damage from water, steam or oil yes, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards and

are they constructed wholly of durable, non-ignitable non-absorbent materials yes, (Bakelite), is all insulation of high dielectric strength and of

permanently high insulation resistance yes, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micamite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

and is the frame effectively earthed yes Are the fittings as per Rule regarding:— spacing or shielding of live parts

yes, accessibility of all parts yes, absence of fuses on back of board yes, proportion of omnibus

bars yes, individual fuses to voltmeter, pilot or earth lamp yes, connections of switches yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Each generator

fitted with double pole switch, double pole circuit breaker with overload, reverse

release & equalizer switch connected as per Rule

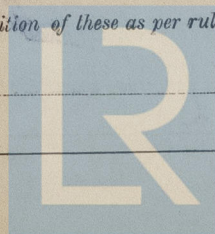
Instruments on main switchboard 6 ammeters 3 voltmeters synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

Two volt meter & switch

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes



If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office?

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor, Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current in area.	Approximate Length (Lead in & Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP	1	0.1527	150	20	200	236	Paper	Armoured
	MAIN BILGE LINE PUMPS ...	1	0.0611	60	20	60	56	Rubber	"
	GENERAL SERVICE PUMP ...	1	0.0611	60	20	80	50	"	"
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS ...	2	0.1527	150	20	160	160	Paper	"
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR	2	0.2545	250	20	345	164	"	"
	FRESH WATER PUMP	1	0.0032	1	16	9	80	Rubber	"
	ENGINE TURNING GEAR ...	1	0.0305	30	20	48	98	"	"
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	2	0.1527	150	20	238	160	Paper	"
	OIL FUEL TRANSFER PUMP ...	1	0.0611	60	20	60	70	Rubber	"
	WINDLASS	1	0.1527	150	20	240	480	Paper	"
	WINCHES, FORWARD	24	0.2036	250	20	766	225	Rubber	"
	WINCHES, AFT	24	"	"	"	226	500	Paper	"
	STEERING GEAR—								
	(a) MOTOR GENERATOR ...	1	0.1527	150	20	144	650	Paper	"
	(b) MAIN MOTOR	1	0.1120	110	20	104	30	Rubber	"
	WORKSHOP MOTOR	1	0.0032	1	16	92	70	"	"
	VENTILATING FANS	1	0.0305	30	20	32	110	"	"
	Refrigerator, Co. Condenser	2	0.0305	30	20	48	100	"	"
	" Cooling Pump	2	0.0032	1	16	6	"	"	"
	" Sump Pump	2	"	"	"	"	"	"	"
	Auto Freezer	1	0.0071	7	20	20	100	"	"
	" Cooling Pump	1	0.0032	1	16	6	100	"	"
	Pump	1	0.0071	7	20	10	80	"	"
	Pump	1	"	"	"	12	240	"	"
	"	1	0.0032	1	16	8	50	"	"
	" Heater	1	0.1527	150	20	160	240	Paper	"

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

E. Maiden

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass *64 ft. for generator; 24 ft. for wireless motor*

Distance between electric generators or motors and steering compass *72 " " " 32 " " "*

The nearest cables to the compasses are as follows:—

A cable carrying *0.2* Amperes *6* feet from standard compass *14* feet from steering compass.

A cable carrying *-* Amperes *0* feet from standard compass *0* feet from steering compass.

A cable carrying *-* Amperes *0* feet from standard compass *0* feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *yes*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *yes*

The maximum deviation due to electric currents was found to be *0* degrees on *0* course in the case of the standard compass, and *0* degrees on *0* course in the case of the steering compass.

S. Mas

Builder's Signature.

Date

Is this installation a duplicate of a previous case *no* If so, state name of vessel *-*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The electrical installation of this vessel has been fitted under Special Survey in accordance with the Rules and approved plans. The materials and workmanship are good. On completion the installation was tested under full working conditions and found to be efficient and reliable, in my opinion, for the use of "Electric Light".

It is submitted that this vessel is eligible for THE RECORD.

Electric Light

W. H. Morrison
5/9/33

Total Capacity of Generators *552* Kilowatts.

add fee for Rule.

The amount of Fee ...

£172
£852.-

When applied for,

2nd Aug. 1933

When received,

26.10.1933

Travelling Expenses (if any) £

included in Hull Report

W. H. Morrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 12 SEP 1933

FRI. 29 SEP 1933

Assigned

Elec. Light



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