

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 1411

Date of writing Report

19

When handed in at Local Office

30. JUN. 1953

Received at London Office

9 JUL 1953

No. in
Reg. Book.

Survey held at

NAGOYA, JAPAN

Date, First Survey

4-2-53

Last Survey

4-4-1953

(No. of Visits)

9

on the

STEEL TWIN SCREW M.S. "NEW YORK MARU"

Built at

NAGOYA

By whom built

NAGOYA SHIP BUILDING CO. LTD.

Yard No.

104

When built

Apr 1953

Owners

TOHO KAIUN CO. LTD.

Port belonging to

TOKYO

Installation fitted by

NAGOYA SHIP BUILDING CO. LTD.

When fitted

Apr 1953

Is vessel equipped for carrying Petroleum in bulk

No

Is vessel equipped with D.F.

Yes

E.S.D.

Yes

Gy.C.

Yes

Sub.Sig.

No

Radar

Yes

Plans, have they been submitted and approved

Yes

System of Distribution

Three phase three wire insulated system

Voltage of Lighting

110V

Heating

110V

Power

220V

D.C. or A.C., Lighting

A.C.

Power

A.C.

If A.C. state frequency

60

Prime Movers, has the governing been found as per Rule when full load is thrown on and off

Yes

Are turbine emergency governors fitted

with a trip switch

Generators, are they compound wound

—

and level compounded under working conditions

if not compound wound state distance between generators

—

and from switchboard

—

Are the generators arranged to run

in parallel

Yes

are ~~hunt field~~ regulators provided

Yes

Is the compound winding connected to the negative or positive pole

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing

Yes

Have certificates of

test for machines under 100 kw. been supplied

Yes

and the results found as per Rule

Yes

Position of Generators

No. 1 - Engine Room on S. side

No. 2 - Engine Room on P. side forward

Aux. - E.R. on P.S. aft.

Paul use

is the ventilation in way of generators satisfactory

Yes

are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil

Yes

Switchboards, where are main switchboards placed

Platform in Engine room

at forward of main engine

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

steam and oil

Yes

what insulation is used for the panels

Synthetic insulating material

material is it an Approved Type

Yes

if of synthetic insulating

per Rule

Is the construction as per Rule, including locking of screws and nuts

Yes

Description of Main Switchgear

for each generator and arrangement of equaliser switches

a trip-pole linked air circuit breaker with over current

trips in two phases and a triple-pole linked switch fitted.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit

a triple pole linked circuit breaker for each

outgoing motor circuit, and a triple-pole linked knife switch and a fuse in each phase

for the others

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule

Yes Instruments on main switchboard

ammeters

8 voltmeters

1 synchronising devices. For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection

Earth Testing, state means provided

3 metal filament type lamps for each of 220V or 110V circuit

Switches, Circuit Breakers and Fuses, are they as per Rule

Yes, are the fuses an Approved Type

Yes "MLK" type

make of fuses

Mitsui S.B. & E.W.

are all fuses labelled

Yes If circuit breakers are provided for the generators, at what

overload do they operate

50 % and at what current do the reversed current protective devices operate

15 % of full load power

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule

Yes

Cables, are they insulated and protected as per Rule

Yes, if otherwise than as per Rule are they of an Approved Type

state maximum fall of pressure between bus bars and any point under maximum load

2T, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets

Yes Are all paper insulated and varnished cambric insulated

cables sealed at the ends

Yes Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil,

high temperatures or risk of mechanical damage

Yes, are any cables laid under machines or floorplates

Yes, if so, are they

adequately protected

Yes Are cables in machinery spaces, galleys, laundries, etc., lead covered

Yes or run in conduit

or of the "HR" type

State how the cables are supported or protected

Cable supported by metal clips protected

by lead alloy sheathed with or without armoring

in engine room protected by armour and

carried on galvanized perforated steel plating, where laid under floor plates enclosed in strong

steel pipes in hold protected by armour and carried on galvanized perforated steel and protected

by steel plating where exposed to risk of mechanical damage

Are all lead sheaths, armoring and conduits effectually bonded and earthed

Yes Are all cables passing through decks and watertight

bulkheads provided with deck tubes or watertight glands

Yes, where unarmoured cables pass through beams, etc., are the holes

effectively bushed

Yes Refrigerated chambers, are the cables and fittings as per Rule

Yes

013596 - 013603 - 0183 1/2

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Foundation

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory.....

DESCRIPTION.									
Main switch board - P.H. Section Box (Upper D.K.)	3C	0025 ^{49 in} x 2	93	51 x 2 ⁶	111	put Varinized concrete	lead & braid		
" ~ GL2 " (Bridge D.K.)	"	"	83	"	48	"	"		
" ~ JH2 " (Upper D.K.)	"	0.0145	16	18	59	Varinized rubber	"		
" ~ H1A " (Engine room)	"	0.04	63	70	85	Varinized concrete	lead & armour		
" ~ JH5 " (Upper D.K.)	"	"	59	"	65.5	"	"		
" ~ P1 " (Engine room)	"	0.15	"	77	98	Varinized rubber	"		
" ~ P2 " (Eng. Room D.K.)	"	0.0145	29	38	72	Varinized concrete	lead & braid		
" ~ P3 " (Engine room)	"	0.06	63	70	111	"	lead & armour		
" ~ P4 " (")	"	"	51	"	105	"	"		
" ~ P5 " (Galley)	"	0.007	6	12	138	Varinized rubber	"		
" ~ P6 " (Gyro room)	"	0.04	52	70	85	Varinized concrete	"		
" ~ P7 " (Wheel house)	"	0.06	35	42	91	Varinized rubber	"		
" ~ Shore connection box (Upper D.K.)	"	0.15 x 2	250	166 x 2	151	Varinized rubber	"		
" ~ Electric meter box (Upper D.K.)	1C	0.06 x 2	98	130	85	"	lead & braid		

ALL IMPORTANT MOTORS TO BE ENUMERATED.			MOTOR CABLES.						
No.	B.H.P.								
Main Switchboard									
No 1 main cooling sea water pump motor	1	55 HP	3C	0.2 sq in	144A	200A	49 ft	varnished conduc	
" ~ " "	1	"	"	"	"	"	36	"	
" ~ main cooling fresh water pump motor	1	50	"	"	130	"	45.8	"	
" ~ No 1 & 2 plate oil pump motor	1	60	"	"	157	"	36	"	
" ~ No 2 " "	1	"	"	"	"	"	105	"	
" ~ No 3 " "	1	"	"	"	"	"	81.8	"	
" ~ Fuel valve cooling water pump motor	1	5	"	0.007 x 2	16	12 x 2	95	varnished rubber	
" ~ Generator cooling sea water pump motor	1	"	"	"	"	"	98	"	
" ~ Bilge & Ballast pump motor	1	45	"	0.15	118	166	75	varnished conduc	
" ~ Fire & G.S. pump motor	1	"	"	"	"	"	88.2	"	
" ~ No 1 Engine room ventilating fan motor	1	6	"	0.007 x 2	20	12 x 2	157	varnished rubber	
" ~ No 2 " "	1	"	"	"	"	"	177	"	
" ~ Work shop machine motor	1	5	"	0.0145	16	19	98	"	
" ~ No 1 Main engine turning gear motor	1	12	"	0.0225	37	51	103	varnished conduc	
" ~ No 2 " "	1	"	"	"	"	"	118	"	
" ~ No 1 Whirling motor	1	5	"	0.0145	16	19	81.8	varnished rubber	
" ~ No 2 " "	1	"	"	"	"	"	108	"	
" ~ Steering motor	1	35	"	0.15	100	166	317	varnished conduc	
" ~ Refrigerating motor	3	7.5	"	0.04	45	70	49	"	
P. Section box ~ F.O. purifier motor	1	8	"	0.0445	25	38	26.2	"	
" ~ F.O. classifier motor	1	"	"	"	"	"	36	"	
" ~ L.O. purifier motor	1	2	"	0.0045	7	11	39.3	varnished rubber	
" ~ F.O. service pump motor	1	"	"	"	"	"	26.2	"	
" ~ No 1 F.O. purifier motor	1	2	"	"	"	"	32.7	"	
" ~ No 2 F.O. purifier motor	1	3	"	0.007	10	12	39.2	"	
P2 " ~ Boiler forming fan motor	1	7.5	"	0.007 x 2	22	12 x 2	39.3	"	
" ~ Forewater pump motor	1	2	"	0.0045	7	"	32.7	"	
P3 " ~ Fore exhaust boiler	1	10	"	0.0145	30	38	26.2	varnished conduc	
" ~ No 1 F.O. Transfer pump motor	1	"	"	"	"	"	32.7	"	
" ~ No 2 " "	1	"	"	"	"	"	13.1	varnished rubber	
" ~ L.O. Transfer pump motor	1	"	"	"	"	"	39.3	"	
" ~ No 1. Boasting pump motor	1	4	"	0.0445	13	19	65.4	"	
" ~ No 2 " "	1	"	"	"	"	"	26.2	"	
P4 " ~ Sanitary pump motor	1	"	"	"	"	"	52.3	"	
" ~ Bilge pump motor	1	7.5	"	0.007 x 2	22	12 x 2	13.1	"	
" ~ Fresh water pump motor	1	7	"	0.007	10	13	"	"	
" ~ Blow motor	1	"	"	0.0045	4	11	"	"	
" ~ For cooking range	1	"	"	"	"	"	"	"	
" ~ Bean curd machine motor	1	"	"	"	"	"	"	"	

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description.

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions

yes

Keiji Fukuhara

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct

yes

Is this installation a duplicate of a previous case

yes

If so, state name of vessel

T.M.V. "YOKOHAMA MARU"

Plans. Are approved plans forwarded herewith

-

If not, state date of approval

24/2/53

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith

yes

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical installation of this vessel has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters.

The material and workmanship are sound & good.

The electrical installation has been tried under comprehensive deck and sea trials & found satisfactory.

Total Capacity of Generators 760 K.V.A. Kilowatts.

The amount of Fee ...

£ 280,000 -

When applied for,

30 JUN 1953

When received,

19

Travelling Expenses (if any) £

FRIDAY 28 AUG 1953

Committee's Minute

Assigned

Sir F.E. Moly. r.p.

S. B. Jansson K. Lamakura
Surveyor to Lloyd's Register of Shipping.



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