

29 JAN 1960

Rpt. 13.

No. FE-7273

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 21st Nov., 1959, When handed in at Local Office JAN 18 1960 Port of KOBE

No. in Survey held at Mukaishima, Japan Date, First Survey 10th Oct. '59 Last Survey 14th Nov., 1959
Reg. Book. (No. of Visits 8)

on the Steel Twin-Screw m.s. "STANVAC JURONG" Tons Gross 690.48
Net 355.27

Built at Mukaishima By whom built Mukaishima Dockyard Co., Ltd. Yard No. 48 When built Nov., 1959

Owners Standard-Vacuum Oil Co., Ltd. Port belonging to Singapore

Installation fitted by Mukaishima Dockyard Co., Ltd. When fitted Nov., 1959
Oil flash point above 65°C

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No Radar No

Plans, have they been submitted and approved Yes System of Distribution Two Wire Insulated Voltage of Lighting 110

Heating 110 Power 110 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency -

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 Yes, and level compounded under working conditions Yes

Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole Negative

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Main Gen: Floor at port side

in engine room, Aux. Gen: Floor aft S.B. side in engine room

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 Floor aft in engine room

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 Phenolic resin bonded board, if of synthetic insulating

material is it an Approved Type Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

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 Double pole linked air circuit breaker with over current protection,

and double pole linked iso. knife switch

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole linked and double throw knife switch

with fuse on each pole and double pole linked air circuit breaker with over current protection for Windlass

feeder.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 3

ammeters 3 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse current

protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided Two lamps

in series with mid-point earthed Preference Tripping, state if provided -, and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

make of fuses Utsunomiya, are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 125% - 19 sec., and at what current do the reverse current protective-

devices operate - 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 4.5V volts. 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 No, if so, are they adequately protected - State

type of cables (if in conduit this should also be stated) in machinery spaces V.L.C., galleys V.L.C.

and laundries - State how the cables are supported or protected generally fitted by metal clips on

steel hangers or saddles, or directly on structural steel or wook work, and protected by heavy gauge steel

tubes or steel plates where necessary.

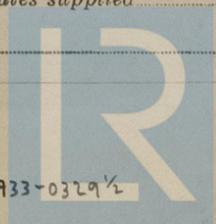
Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight

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 -

Have refrigeration fan motors been constructed under survey - and test certificates supplied -

Are the motors accessible for maintenance at all times Yes



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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes Emergency Supply, state position Yes

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches and fuses Yes Are the switches and fuses in a position accessible only to the officers on watch Yes, is an automatic indicator fitted Yes Is an alternative supply provided Yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule Yes, state battery capacity in ampere hours 1 x 24V, 200 AH Where required to do so does it comply with 1948 International Convention Yes

Lighting, is fluorescent lighting fitted Yes If so, state nominal lamp voltage 115V and compartments where lamps are fitted Engine room, boiler room, galley, navigation bridge, deck

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes

Searchlights, No. of 1, whether fixed or portable fixed, are they of the carbon arc or of the filament type filament

Heating and Cooking, is the general construction as per Rule Yes, are the frames effectually earthed Yes, are heaters in the accommodation of the convection type Yes Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil Yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment Yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing Yes

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule Yes

Lightning Conductors, where required are they fitted as per Rule Yes

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with Yes, are all fuses of an Approved Cartridge Type Yes, make of fuse 5A, 10A, 15A, 20A, 25A, 30A, 40A, 50A, 60A, 75A, 100A Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships Yes Are all cables lead covered as per Rule Yes

E.S.D., if fitted state maker Yes location of transmitter and receiver Engine room

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations Yes

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

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				TYPE.	PRIME MOVER.	MAKER.
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.			
MAIN	1	Nippon Yusoki Co., Ltd.	45	110	410	900	Diesel	Yanmar Diesel Engine Co.	
Aux.	1	- do -	15	110	136	900	Diesel	Yanmar Diesel Engine Co.	
EMERGENCY ROTARY TRANSFORMER									

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands Sq. Ins. 200/200	In the Circuit.	Rule.			
MAIN GENERATOR	1	45	1	0.4	410	492	140	V	L.C.
" " EQUALISER									
" " Field circuit			1	0.003	5.4	10	70	V	L.C.
Aux. Generator	1	15	1	0.06	136	143	60	V	L.C.
" " Field circuit			1	0.003	2.8	10	30	V	L.C.
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Kw.	Sectional Area or No. and Dia. of Strands Sq. Ins.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
From main switch board/shore connection box to	1	0.1	200	202	50	V	L.C.

NOTE: V: Varnished cambric insulated
L: Lead Alloy Sheathed
C: Steel Wire Braided Cable.

DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands Sq. Ins. 200/200	In the Circuit.	Rule.			
From M.S.B. to Switch Box (A)	1	0.007	5.4	27	160	V	LC
From M.S.B. to 10 distribution fuse panel (C)	1	0.04	34.0	101	140	V	LC
From M.S.B. to 6 distribution fuse panel (B)	1	0.03	37.0	84	160	V	LC
From M.S.B. to 4 distribution fuse panel (D)	1	0.0045	10.5	15	30	V	LC
From M.S.B. to navigation light panel	1	0.0045	2.6	15	160	V	LC
From M.S.B. to galley range	1	0.03	45.4	84	120	V	LC
From M.S.B. to battery charge	1	0.03	30.0	84	60	V	LC
From M.S.B. to battery	1	0.04	30.0	101	60	V	LC
From M.S.B. to reserved light (6 distribution fuse panel (E))	1	0.04	23.3	101	140	V	LC

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	Sectional Area or No. and Dia. of Strands Sq. Ins.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.		
Windlass	1	25	1	0.15	195	260	480	V	L.C.
Cargo oil pump	1	15	1	0.1	120	185	160	V	L.C.
Capstan	1	10	1	0.03	80	92	100	V	L.C.
F.O. & L.O. Transfer pump	1	3	1	0.007	25	27	140	V	L.C.
Sanitary fresh water pump	1	3	1	0.007	25	27	100	V	L.C.
Steering gear	1	2	1	0.007	16.5	27	140	V	L.C.

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.
M.S.B.— Main switch board.

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.

S. Yamada Electrical Contractors. Date _____
MUKAISHIMA DOCKYARD CO., LTD.

COMPASSES.

Have the compasses been adjusted under working conditions Yes

T. Kushihata Builder's Signature. Date _____
MUKAISHIMA DOCKYARD CO., LTD.

Have the foregoing descriptions and schedules been verified and found correct. No

Is this installation a duplicate of a previous case. No If so, state name of vessel _____

Plans. Are approved plans forwarded herewith. No If not, state date of approval. 21-8-59 11-9-59

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The electric installation fitted in this ship has been installed under special survey in accordance with the Society's Rules, the approved plans and Secretary's letters.

The generators and motors etc. have been examined under full working conditions to Rule requirements and found to be satisfactory.

Total Capacity of Generators 60 Kilowatts.

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

M. Ishiwatari
Surveyor to Lloyd's Register of Shipping.
M. Ishiwatari.

FRIDAY 26 FEB 1960

Committee's Minute

Assigned. See Rpt. 1.

501-6.56 - Transfer. (MADE AND PRINTED IN ENGLAND) (The Surveyors are requested not to write on or below the space for Committee Minutes.)

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