

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

21 JUL 1958

Date of writing Report 4-7-1958 When handed in at Local Office 15-7-1958 Port of Antwerp

No. in Survey held at Bruges Date, First Survey 25-3-1948 Last Survey 16-6-1948
Reg. Book. (No. of Visits 10)

43912 on the m.v. "JANAKI" Tons Gross 1124 Net 474

Built at Bruges By whom built Chant. Nav. de Bruges Yard No. 34 When built 1958

Owners Malabar S.S. Co. Ltd. Port belonging to Bombay

Installation fitted by Ets. Campbell & Isherwood S.A. When fitted 1958

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. Radar yes

Plans, have they been submitted and approved Yes System of Distribution Two wire D.C. Voltage of Lighting 220

Heating Power 220 D.C. or A.C., Lighting -- Power -- 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 yes 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 yes Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule yes Position of Generators One 80 KW. generator

Stbd. Side M.E. room, and One 80 KW. generator and one 32 KW. generator Port side M.E. 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 stbd. side thwartship,

forwd. side M.E. 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 Dead Front Type (Porcelain), 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 Three pole circuit breakers (G.E.C.) with delayed overload protection and short circuit protection on two poles.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole switches with fuses on each pole or double pole circuit breakers.

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

ammeters 2 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 yes Earth Testing, state means provided

earth indicating lamps Preference Tripping, state if provided yes, and tested yes

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

make of fuses G.E.C. England, are all fuses labelled yes If circuit breakers are provided for the generators, at what

overload do they operate 150 % 20 sec., and at what current do the reverse current protective

devices operate 10% of full load current 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 2 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.R.I. IC&A, galleys V.R.I. IC & A

and laundries -- State how the cables are supported or protected clipped to bulkheads or to

steel cable trays. All cables are protected against mechanical damage where necessary.

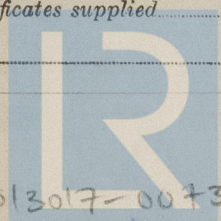
Are all lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertight

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 none

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

Are the motors accessible for maintenance at all times



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

PARTICULARS OF GENERATING PLANT.										PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. of	MAKER.	Kw. per generator.	RATED AT			TYPE.	MAKER.			
				Volts.	Ampères.	Revs. per Min.					
MAIN	2	Garbe Lahmeyer & Co	80	220	364	720	Diesel motor	M.A.N. AG. Augsburg			
Harbour Emergency ROTARY TRANSFORMER	one	Lloyds Dynamowerke A.G.	25	220	114	1500	Diesel motor	Klockner & Humboldt Deutz A.G.			

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA- TION.	PROTECTIVE COVERING
			No. In Parallel per Feils.	Sectional Area or No. and Dia. of Strands Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	2	80	2	19/.083	364 ✓ / 404	26m	V.C.	LC & A	
" " EQUALISER			1	19/.083	✓ / 202	13m	V.C.	LC & A	
" " "									
" " "									
" " "									
Harbour									
EMERGENCY GENERATOR	1	25	1	19/.083	117 ✓ / 202	30m	V.C.	LC & A	
ROTARY TRANSFORMER : MOTOR ...									
GENERATOR									

DESCRIPTION.									
02.16/02.13/02.11 to distr.brds.L5,L2	1	3/036	10	✓	10	60m	V.R.I.	LC & A	
02.15/02.14/ to distr.Brds.L5 & L4	1	7/036	20	✓	24	36m	"	"	"
02.12/ to distr. brds. L1	1	7/044	30	✓	31	10m	"	"	"
02.17/02.5 to distr.brd. L6,P6,P1	1	7/044	40	✓	45	60m	V.C.	LC & A	
02.48 to distr.brds. P2	1	7/029	15	✓	15	36m	V.R.I.	LC & A	
02.60 to distr.brds P.3	1	19/064	125	✓	143	36m	V.C.	LC & A	
02.61 to distr.brds. P.4	1	19/083	160	✓	202	80m	V.C.	LC & A	
02.10 to radar	1	7/044	40	✓	45	80m	V.C.	LC & A	
02.40 to distr.brd. V1	1	7/036	20	✓	24	40m	V.I.R.	LC & A	

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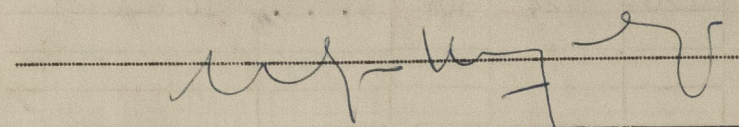
ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
Air compressor	1	9.6	1	7/044	40 ✓ 45	16m	V.C.	LC. & A.
Tub.oil pump	1	6.5	1	7/044	30 ✓ 31	16m	V.R.I.	LC & A
S.W.Cooling pump M.M.	1	15	1	7/064	80 ✓ 80	24m	V.C.	LC & A
E.W. Cooling pump M.M.	1	14.5	1	7/052	66 ✓ 60	24m	V.C.	LC & A
Steering gear motor	2	6	1	7/044	60 ✓ 31	60m	V.R.I.	LC & A
General service pump	1	15	1	7/064	80 ✓ 80	15m	V.C.	LC & A
Ballast & Fire pump	1	28	1	19/064	125 ✓ 143	18m	V.C.	LC & A
Fuel transfer pump	1	3	1	7/029	15 ✓ 15	13m	V.R.I.	LC & A
Harbour sea water pumps	2	55	1	7/044	30 ✓ 31	30m	V.R.I.	LC & A
Windlass	1	38	1	19/083	160 ✓ 202	50m	V.C.	LC & A

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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

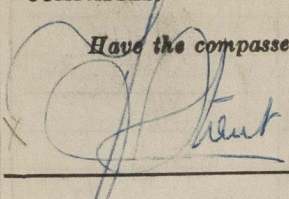
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description.

 Electrical Contractors. Date 18 JUL 1958

ETABLISSEMENTS
CAMPBELL & SHERWOOD N.V.
ELECTRICIENS - MECANICIENS
Genastat 11, A. TWERPEN
Tel. 33-214-320125

COMPASSES

 Have the compasses been adjusted under working conditions. yes

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. no If so, state name of vessel. -

Plans. Are approved plans forwarded herewith as fitted If not, state date of approval 11-2-58 / 31-1-58

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 electrical equipment of this vessel has been installed under the Special Survey of the Society's Surveyors in accordance with the Rules, the approved plans and the Secretary's letters. The materials and workmanship are good. Insulation and other tests required by the Rules have been carried out with satisfactory results.

The electrical equipment of this vessel is eligible in my opinion, to be incorporated in the class assigned to the machinery.

Total Capacity of Generators 185 Kilowatts.

The amount of Fee ... £s 12200.-

When applied for, 18-7-1958

Travelling Expenses (if any) £s 2330.-

When received, 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute THUESDAY 26 AUG 1958

Assigned See Rpt. 1.

5m 6.50 - 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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