

Rpt. 13.

No. 35515

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

20 FEB 1951

Received at London Office

Date of writing Report 5. 2. 51

When handed in at Local Office

FEB - 9 1951

Port of Sunderland

No. in Survey held at Sunderland

Date, First Survey 20.11.51

Last Survey 6.2.51

Reg. Book.

(No. of Visits 12)

90928 on the m.v. "HOLLYWOOD"

Tons { Gross 1144 1/2  
Net 6810

Built at Sunderland

By whom built Sir James Laing &amp; Sons Ltd

Yard No. 789

When built 1951

Owners John I. Jacobs &amp; Co. Ltd

Port belonging to London

Installation fitted by Sunderland Forge &amp; Engineering Co. Ltd

When fitted 1951

Is vessel equipped for carrying Petroleum in bulk. yes 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 2-wire ins. Voltage of Lighting 110

Heating - 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

if not compound wound state distance between generators. - and from switchboard. - Are the generators arranged to run

in parallel. no, are shunt field regulators provided. yes Is the compound winding connected to the negative or positive pole

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

test for machines under 100 kw. been supplied. yes and the results found as per Rule. yes

Position of Generators. Main: Engine Room floor level. Emerg. in Steering Gear flat.

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. on angle iron framework

adjacent to generators

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. Polished Ebony "Sindanyo", 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. a double-pole, air-break circuit-breaker fitted with O/L tripping device on each pole.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. a double-pole knife switch and fuses.

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 reversed current

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

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

make of fuses. "ZED", are all fuses labelled. yes If circuit breakers are provided for the generators, at what

overload do they operate. 10%, and at what current do the reversed current protective devices operate. -

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. less than 6 mm 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. no, if so, are they

adequately protected. - 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. Main feeders: V.C.L.C.A.B. cables

along fore and aft gangway are clipped to solid metal troughing fastened to same.

Accommodation: L.C. cables clipped to the surface and protected where necessary by wood or metal guards.

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. yes

004520-004526-0150

Lloyd's Register  
Foundation

PARTICULARS OF GENERATING PLANT.

[illegible]

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT		APPROX. LENGTH (lead plus return feet).	INSULA- TION.	PROTECTIVE COVERING.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... .. No. 1...	35	2	0. I	318 ✓	404	90	Pyrotex	
" " EQUALIZER No. 2...	35	2	0. I	318 ✓	404	66	"	
EMERGENCY GENERATOR ... ..	25	2	0. I	228 ✓	404	330	Pyrotex	
ROTARY TRANSFORMER : MOTOR ...								
" " GENERATOR...								

DESCRIPTION.							
Midship Section Panel SB,I	3	0.I	197✓	606	560	Pyrotenax	
Aft Lighting & Power Panel SB.2	I	19/.083	156✓	202	110	V.C. L.C.A.B.	
Engine Room Section Panel SB,3	I	0.I	104✓	202	220	Pyrotenax	
" " " " SB,4	I	0.03	72✓	92	114	"	
" " " " SB,5	I	0.03	78✓	92	174	"	
" " " " SB.6	I	0.03	28✓	92	90	"	
" " " " SB,7	I	0.01	34✓	45	84	"	
Shore Connection	2	0.I	-	404	168	"	
Refrig.Section Panel	2c	0.0225	59✓	80	260	"	

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. or sq. mm.	In the Circuit.	Rule.			
Navigation - from M.Switchboard	I	7/.029	3 ✓	15	640	V.I.R.	L.C.A.B.
ditto. from SB,I	I	7/.064	33 ✓	80	180	V.C.	L.C.
Gyro Compass Supply	I	7/.036	10 ✓	24	180	V.I.R.	"
Radar Supply	I	19/.083	46 ✓	202	166	V.C.	"
W/T Supply	I	19/.083	10 ✓	202	160	"	"
Echo Sounding Supply	I	7/.036	5 ✓	24	160	V.I.R.	"
Suez Canal Projector (wiring only)	I	19/.083	-	202	180	V.C.	L.C.A.B.
Upper Bridge Lighting DB,2	I	7/.036	22 ✓	24	154	V.I.R.	L.C.
Bridge Deck Lighting Port DB,3	I	7/.036	18 ✓	24	20	"	"
" " " Star.DB,4	I	7/.036	17 ✓	24	16	"	"
Cargo Lighting DB,5	I	7/.064	38.5 ✓	80	16	V.C.	"
Pantry DB,6	I	7/.036	8 ✓	24	68	V.I.R.	"
Forecastle Lighting DB,7	I	3/.029	4.2 ✓	5	540	"	L.C.A.B.
Galley Fans DB,8	I	7/.044	20 ✓	31	264	"	L.C.
Poop Deck Lighting Aft DB, 19.P.	I	7/.036	20 ✓	24	200	"	"
" " " " " 10.S.	I	7/.036	6 ✓	24	120	"	"
Upper Deck Lighting Aft" 11.P.	I	7/.036	10 ✓	24	180	"	"
" " " " " 12.S.	I	7/.036	15 ✓	24	60	"	"
" " " " " 13.P.	I	7/.036	15 ✓	24	282	"	"
" " " " " 14.S.	I	7/.036	15 ✓	24	132	"	"
Engine Room Lighting DB,15,Port	I	.007	17 ✓	30	210	Pyrotenax	
" " " " 16,Star.	I	.007	17 ✓	30	10	"	

[illegible]

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 5/2/57

#### COMPASSES.

Have the compasses been adjusted under working conditions. yes

Builder's Signature.

Date 7/2/51.

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. yes If not, state date of approval. -

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 Pump Room lighting arrangements are in accordance with The Secretary's letter and accompanying plan of 1st December 1950.

The electrical equipment of this vessel has been installed under special survey and with the above qualification, complies with the special requirements of Section 15 of the Electrical Rules. The arrangements in general principle accord with those shown on the approved plans and "as fitted" drawings of the wiring diagram and main switchboard are attached to this Report showing minor modifications requested by The Owners during completion of the installation. The materials and workmanship are good. On completion, satisfactory trials of the equipment were witnessed and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Total Capacity of Generators (2 x 35, 1 x 25) 95. Kilowatts.

The amount of Fee ... £56. 5. 0. : When applied for,

FEB 19 1951

When received,

Travelling Expenses (if any) £ : : 19

Surveyor to Lloyd's Register of Shipping.

FRI. 2 MAR 1951

Committee's Minute

Assigned