

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

25 MAR 1957

Received at London Office

Date of writing Report 13/3 1957. When handed in at Local Office 19/3 1957. Port of GOTHEBURG.

No. in Survey held at UDDEVALLA. Date, First Survey 18/1 Last Survey 28/2 1957. (No. of Visits 17.)

8/92555 on the Single Screw Motor Tanker "S T A N V A L E" Tons { Gross 12,029 Net 6,884

Built at Uddevalla. By whom built A.-B. Uddevallavarvet Yard No. 160 When built 1957-2

Owners Stanhope Steamship Co. Ltd. Port belonging to London.

Installation fitted by Andersson and Callenberg, Uddevalla. When fitted 1957.

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. --- Radar Yes.

Plans, have they been submitted and approved. Yes. System of Distribution 2-wire. Voltage of Lighting 110 V. 220 in ER.

Heating 220 Power 220 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. 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 2 - 200 KW generators on

starboard side and 1 - 145 KW generator on port side of the Engine Room floor.

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 a platform on starboard side of the 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. Dead front switch board. if of synthetic insulating

material is it an Approved Type. --- 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 linked circuit breaker with overload and reversed current trip and a single pole equaliser interlocked with the circuit breaker.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. A double pole switch and a fuse in each pole.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Yes. Instruments on main switchboard 10

ammeters 7 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. 2 Ohm

meters 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 ASEA, are all fuses labelled. Yes. If circuit breakers are provided for the generators, at what overload do they operate. 20% and at what current do the reverse current protective

devices operate. 10-15% of full load. 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. Below Rule permit. 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. Yes., if so, are they adequately protected. Yes. State

type of cables (if in conduit this should also be stated) in machinery spaces. LC & A. LC & SWB, galleys. LC & SWB; LC & PVC and laundries. LC & SWB; LC & PVC. State how the cables are supported or protected. Supported by metal clips. All power

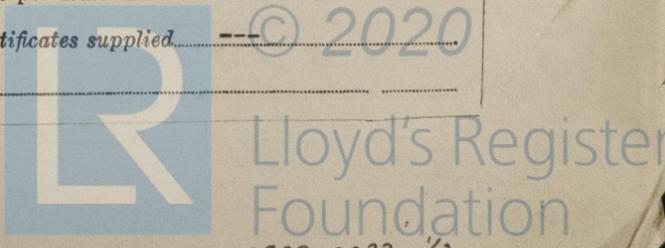
lead covered and armoured or steel wire braided. Lighting cables in accommodation LC & PVC and were drawn behind panels LC & PVC and run in conduits or under wooden covers.

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.

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

Are the motors accessible for maintenance at all times. ---



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

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 --- state battery capacity in ampere hours --- Where required to do so does it comply with 1948 International Convention ---

Lighting, is fluorescent lighting fitted Yes. If so, state nominal lamp voltage 220 and compartments where lamps are fitted Engine Room and Boiler Room

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 Carbon arc type.

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 --- 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 ---

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 ---

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 ASEA 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 Marcorni location of transmitter and receiver ER cofferdam.

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				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	2	ESAB	200	230	870	350	Oil Eng.	Uddevallavarvet A.-B.
	1	ESAB	145	230	630	450	Steam.	Reader & Son.
EMERGENCY ROTARY TRANSFORMER	2	ESAB		115	175	1700	El. motor	ESAB

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. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	2	200	3	150	870	1038	53	Paper	Lead cov. & arm.
" EQUALISER			3	150		1038	53	"	" " "
Steam driven generator	1	145	2	150	630	692	184	"	" " "
Equaliser			2	150		692	184	"	" " "
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR	2	23,5	1	35	120	134	33	"	" " "
" GENERATOR	2	20,0	1	70	175	212	26	"	" " "

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

DESCRIPTION.	No. of	Kw.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Purifiers	1		35	120	134	82	Paper	Lead covered & Arm.	
Workshop	1		10	25	38	23	Rubber	" " "	
Laundry	1		25	90	108	197	Paper	" " "	
Galley	1		16	45	49	250	Rubber	" " "	
Range	1		25	100	108	243	Paper	" " "	
Ref. machinery.	1		10	28	38	164	Rubber	" " "	
Hydrophore pumps	1		16	35	49	204	"	" " "	
Telegraph etc.	1		6		29	177	"	" " "	
Radar and Gyro	1		10	25	38	656	"	" " "	
Shore-connection	1		70	200	212	148	Paper	" " "	
Water heater	1		16	68	84	180	"	" " "	

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. mm.	In the Circuit.	Rule.			
Sectionboard vent. fans	1	35	105	134	66	Paper	Lead cov. & arm.
Fans amidship	1	6	15	29	623	Rubber	" " "
Fans poop forward.	1	4	17	22,5	82	"	" " "
Fans poop aft.	1	4	17	22,5	115	"	" " "
Sectionboard amidship 220 v.	1	16	23	49	689	"	" " "
Sectionboard amidship 110 v.	1	70	85	125	689	"	" " "
Wireless	1	16	25	49	787	"	" " "
Navigation light	1	6	22	29	66	"	" " "
Zues-Searchlight	1	25		63	525	"	" " "
Lighting fore-castle	1	4	15	22,5	394	"	" " "
Lighting upper bridge	1	6	18	29	33	"	" " "
Lighting lower bridge	1	6	22	29	16	"	" " "
Lighting boat deck	1	4	12	22,5	131	"	" " "
Lighting poopdeck port side forward.	1	4	11	22,5	197	"	" " "
Lighting poopdeck port side aft.	1	6	16	29	275	"	" " "
Lighting poopdeck starboard side.	1	6	24	29	197	"	" " "
Lighting main deck port side	1	6	22	29	111	"	" " "
Lighting main deck starboard side forward.	1	6	18	29	66	"	" " "
Lighting main deck starboard side aft.	1	6	20	29	213	"	" " "
Lighting Engine Room, port side.	1	6	18	29	195	"	" " "
Lighting Engine Room, starboard side.	1	6	18	29	40	"	" " "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Manoeuvring Air Compressor	2	65	1	95	240	257	174	Paper	Lead covered & arm.
Main Lubr. Oil Pump	2	65	1	95	240	257	197	"	" " "
Main Circ. pump	2	53	1	70	195	212	207	"	" " "
Aux. Circulating pump	1	8	1	10	32	38	66	Rubber	" " "
Steering gear	2	15	1	10	62	63	262	Paper	" " "
Ballast pump	1	17,5	1	16	68	84	46	"	" " "
Fire- & sanitary pump	1	21	1	16	80	84	49	"	" " "
Heavy oil transfer pump	1	29	1	35	85	134	131	"	" " "
Diesel oil transfer pump	1	11	1	16	43	49	125	Rubber	" " "
Butterworth pump	1	90	1	150	330	346	131	Paper	" " "
Turning motor	1	29	1	35	47,5	78	131	Rubber	" " "
Lighting motor	1	8,4	1	10	33	38	144	"	" " "
Forced draught fan	1	18	1	16	70	84	144	Paper	" " "
Oil fuel purifier	2	8	1	10	32	32	66	Rubber	" " "
Boiler oil purifier	1	15	1	25	58	63	53	"	" " "
Lubr. oil purifier	1	8	1	10	32	32	66	"	" " "

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.

ELEKTROSKA AB ANDERSSON & CALLENBERG

[Signature]

Electrical Contractors.

Date 16.3.57

COMPASSES.

Have the compasses been adjusted under working conditions Yes.

UDDEVALLAVARVET

[Signature]

Builder's Signature.

Date 16-3-57.

Have the foregoing descriptions and schedules been verified and found correct Yes.

Is this installation a duplicate of a previous case --- If so, state name of vessel ---

Plans. Are approved plans forwarded herewith No. If not, state date of approval 2/1 & 6/2-1957.

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.)

This electric installation has been fitted in the ship under my inspection and to my satisfaction and has been tried under full load conditions on a trial trip and found satisfactory.

Workmanship and material used are good. 220 volt for lighting in Engine Room has been approved as per Secretary's letter dated 21st January, 1957.

2m.455 - Transfer. (MADE AND PRINTED IN ENGLAND) (The Subscribers are requested not to write on or below the space for Committee Minutes.)

Total Capacity of Generators 545 Kilowatts.

The amount of Fee ... £r. 2,060:-- When applied for, 19/3 19 57.

Travelling Expenses (if any) £r. : 130:-- When received, 19

[Signature]
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUESDAY 14 MAY 1957

Assigned *Sic Rpt. 1.*

+ ar.
27.3.57



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