

## Report on Electrical Equipment

OTHER THAN FOR THE PROPULSION OF THE VESSEL

14<sup>th</sup> May 43. 14<sup>th</sup> May 43. Port of **Mahrro**.  
 Name of vessel **Mahrro**. Date First Survey **2<sup>nd</sup> Jan** Last Survey **21<sup>st</sup> Aug, 1942**.  
 Reg. No. **17**.  
 ✓ on the **Single screw Motor Tanker "KATHRINE STENERSEN"**.  
 Built at **Mahrro** By whom built **Kockumns Mek. V. A. B.** Yard No. **220** When built **1942**.  
 Owner **Skandinavisk Trampskibsselskab II** Port belonging to **Danish**.  
 Electrical installation fitted by **Kockumns Mek. V. A. B.** Contract No. **✓** When fitted **1942**.  
 Vessel fitted for carrying Petroleum in bulk **Yes**. Is vessel equipped with D. F. **Yes** E. S. D. **Yes** O. C. **✓** Sub. Stn. **✓**

Has plan been submitted and approved **Yes**. System of Distribution **Two wire system** Voltage of supply for lighting **110**  
 110:220 **220** Direct or Alternating Current, Lighting **Direct** Power **Direct** If Alternating Current state frequency **✓** Prime Movers.

Are the governing gear fitted and found efficient when the whole load is suddenly thrown on and off. **No** Are turbine emergency governors fitted with a trip switch as per Rule. **✓** Generators, are they compound wound **Yes** are they semi compound under working conditions **Yes**

Are compound wound state distance between generators **✓** and from switchboard **✓** Where more than one generator is fitted are they arranged to run in parallel **Yes** are short field regulators provided **Yes** Is the compound winding connected to the negative or positive pole **Negative pole**

Have machines over 100 kw been inspected by the Surveyors during manufacture and testing **Yes** Have generators of less than 100 kw been supplied **Yes** and the results found as per rule **Yes** Are the lubricating arrangements and the construction of the generators as per rule **Yes**

Position of Generator **Main: One on each side at front end of motor space.**

Are the generators driven by **Ans. steam driven.** **Yes** Is the ventilation in way of generators satisfactory **Yes** are they clear of inflammable material **Yes**

On 2<sup>nd</sup> deck in the motor space, port side. **Yes** are the generators protected from mechanical damage and damage from water, steam and oil **Yes** are the bedplates and frames earthed **Yes** and the prime movers and generators in metallic contact **Yes**

Switchboards, where are main switchboards placed **In the front of motor space, port side.**

Are they in accessible positions free from inflammable gases and acid fumes **Yes** are they protected from mechanical damage and damage from water, steam and oil **Yes** are they protected from mechanical damage and damage from water, steam and oil **Yes**

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Foundation

01071-01078-0041



Are all low strength, annealing and standards effectively bonded and earthed? **Yes**  
 Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands? **Yes**  
 Are the holes effectively bushed? **Yes** and with what material? **Lead**  
 Are the glands or bolls in the engine and boiler rooms arranged as per Rule? **Yes**  
 Are the glands or bolls in the engine and boiler rooms arranged as per Rule? **Yes**  
 What method of control? **✓**  
 Navigation Lamps, are they separately used? **Yes** controlled by separate  
 double pole switches? **Yes** 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** Secondary Batteries are they constructed and fitted as per Rule? **✓** are they adequately ventilated? **✓**  
 Are they, are they fitted in suitable racks in storerooms and engine rooms and other places and are they adequately maintained? **Yes** Are fittings  
 installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present? **Yes** If so, how are they protected?  
 Lamps contained in gastight fittings and cables led in gastight tubing.  
 Are the controlling switches fitted? **Wholly outside these spaces** are all things suitably ventilated? **Yes**  
 Are all fittings and accessories constructed and installed as per Rule? **Yes** Searchlight Lamps, are they **✓** whether fixed or portable? **✓**  
 Are they fitted as per Rule? **✓** Heating and Cooking in the galley constructed as per Rule? **Yes**  
 Are the frames effectively earthed? **Yes** Are heaters in the accommodation as the construction type? **None** Are they all suitably constructed and  
 installed as per Rule? **Yes** and placed in well-ventilated compartments in which inflammable vapours cannot collect and free from draughts from outside  
 spaces and not **Yes** if situated near unprotected combustible material, suitably protected from outside spaces? **✓** Are they suitably **✓**  
 Are boilers of 100 BHP and over also protected by the fire-escape? **Yes** Are certificates of test for boilers under  
 100 BHP obtained for essential services been supplied and the certificates in position? **Yes** Control lights and resistances on the engine and  
 boiler room? **Yes** Tagging of conductors, where required for the purpose of the Rule? **✓** Some kerosene Oil having a Flash Point  
 less than 130° F. have all the proper arrangements of the three for each where they are used? **Yes** Are all bottles of the kerosene type? **Yes**  
 Are they of an approved type? **Yes** Are portable lamps for use in engine and boiler rooms provided with glass shields? **Yes**  
 Are they of an approved type? **Yes** Are they suitably fixed in the  
 engine and boiler rooms? **Yes** Are the insulation resistance of all conductors and appliances tested as per Rule? **Not yet**  
 Are the insulation resistance of all conductors and appliances tested as per Rule? **Not yet**

DESCRIPTION	KVA CAPACITY	WEIGHT		MAXIMUM DIMENSIONS		SPECIAL EQUIPMENT	NOTES	HOW PROTECTED
		Net in Package	Shipping Weight	Length	Width			
MAIN GENERATOR	110	2	240	479	540	36	Rubber lead covered and steel tags armoured.	
EQUALISER		2	240	-	-	36		
Auxiliary generator	25	1	70	114	125	33	"	"
EMERGENCY GENERATOR								
ROTARY TRANSFORMER MOTOR	24	1	70	125	125	22	"	"
" " GENERATOR	20	1	150	174	200	18	"	"

MAIN DISTRIBUTION CABLES.									
AUX. SWITCHBOARDS AND SECTION BOARDS									
P1.	1	95	102	150	180	Rubber	lead covered and		
P2 & C.	1	25	57	62	max. 264	"	steel tape armoured.		
P3 & D.	1	6	25	62	84	"	"	"	
E.	1	10	29	40	56	"	"	"	
F.	1	25	52	62	66	"	"	"	
G.	1	16	47	48	74	"	"	"	
J.	1	10	33	40	10	"	"	"	

LIGHTING AND HEATING ETC. CABLES.									
WIRELESS	H.	1	16		48	176	Antbr	Lead covered and	
NAVIGATION LIGHTS	B.	1	6	3	28	190		steel top armored.	
LIGHTING AND HEATING.									
Main head lights.		1	1.5	0.4	8	max. 100	"	"	"
Side lights.		1	1.5	0.4	8	" 40	"	"	"
Port light.		1	1.5	0.4	8	250	"	"	"
Starboard light.		1	1.5	0.4	8	16	"	"	"
Compass lights.		1	1.5	0.4	8	max. 14	"	"	"
Cooking.		1	70	98	12.4	64	"	"	"
Water heaters.		1	2.5	6.5	15	max. 36	"	"	"

MOTOR FILES									
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Pilger pumps.	1	5	1	4	20	22	55	Ambr. lead covered and	
Pilger & auxiliary pumps.	1	8	1	10	32	40	52	steel tap around.	
Circ. sea water pumps.	2	28.5	1	70	110	125	max. 60	"	"
" " " (aux. eng)	1	5.5	1	4	21.5	22	39	"	"
Engine turning gear.	1	14	1	25	57	62	76	"	"
Lubricating oil pumps.	2	40	1	95	152	152	max. 82	"	"
Oil fuel transfer pumps.	1	6	1	6	24	28	36	"	"
Cooling pumps for overboiler.	1	1	1	1.5	4.3	9	75	"	"
Fuel oil evaporator	1	3	1	2.5	12	15	8	"	"
Lubr. " "	1	7	1	6	27	28	75	"	"
CO <sub>2</sub> compressor.	1	12	1	16	47	48	90	"	"
Turning gear.	1	15	1	25	58	62	134	"	"
Workshop motor.	1	3	1	2.5	12.5	15	75	"	"
Lift block.	1	6	1	6	24	28	72	"	"
Water meter pumps.	1	2.2	1	2.5	9.5	15	14	"	"
Falt " "	1	2.2	1	2.5	9.5	15	17	"	"
Circ. pumps for La Mont boiler.	1	4	1	4	17	22	6	"	"
Ventilating fans in eng. comp.	2	3.5	1	2.5	13.7	15	max. 61.3	"	"



The following equipment is installed in accordance with the approved plans and the requirements of the Rules.  
 1. The following equipment is installed in accordance with the approved plans and the requirements of the Rules.  
 The following is a correct description.

sgd/ Erik Hjort

Electrical Engineer Date 14-5-1943

**COMPASS**

1. Distance between electric generators in motor and standard compass  
 2. Distance between electric generators in motor and steering compass  
 3. Distance between the compasses in the hull

Engine room to bridge.  
 Engine room to bridge.

1. Distance between electric generators in motor and standard compass	abt. 3	9	1. Distance between electric generators in motor and standard compass	6	1. Distance between electric generators in motor and standard compass
2. Distance between electric generators in motor and steering compass			2. Distance between electric generators in motor and steering compass		2. Distance between electric generators in motor and steering compass
3. Distance between the compasses in the hull			3. Distance between the compasses in the hull		3. Distance between the compasses in the hull

4. The compasses are provided with and without the electric installation as per a full power  
 5. The compasses are provided with and without the electric installation as per a full power  
 6. The compasses are provided with and without the electric installation as per a full power

Hockmeyer Mch. V.O.B.  
 sgd/ E. Lundquist

E. Hjort

Builder's Signature Date 14-5-1943

**General Remarks (State quality of workmanship, whether installation is in accordance with approved plans, etc.)**

The above described electrical equipment installation has been fitted on board under survey in accordance with the Rules, approved plans and instructions.

The workmanship and the materials are good.

To complete survey:-

The electric installation to be magnetically tested and tested under working conditions and the maximum fall of pressure between bus bars and any point under maximum load to be noted.

It cannot be stated when the survey will be completed.

Noted  
 18/6/43

245

(90% of total fee has been applied for.)

Memo. No. 599.92 14<sup>th</sup> Oct. 42.  
 Item. No. 165.30  
 Item. No. 25.00 30<sup>th</sup> Oct. 42.  
 Item.

Alynders, A. Boring

TUES. 29 JUN 1943  
 ccc minute  
 on J.S. Rpt



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