

Ship's Name m. t. "RAPHAEL"

Port GENOA

Gross tons 31,133

Date of completing rpt. 10/6/1965

Rpt. No. 30070

Place of survey, if different from above as above

No. of visits on ship 20

First date 14/1/1965

Last date 22/5/1965

Ship built by ANSALDO S.A. CANTIERE NAVALE, GENOA

Hard No. 1598

When 1965 4

Electrical equip. installed by

" " " " " "

When 1965 4

Fee Lit - 656.250

WP

Expenses (See Rpt. 1)

If ship is an oil tanker, have all the special requirements of the Rules for such ships been complied with?

yes

Have test certificates for generators and essential motors been forwarded?

yes

SYSTEM OF SUPPLY		A.C. or D.C.	SYSTEM	VOLTAGE	FREQUENCY
Generation		A.C.	3 phase - 3 wire - parallel	380	50 c/s
Distribution	(a) Power	A.C.	3 phase - 3 wire - parallel	380	50 c/s
	(b) Heating	A.C.	" " "	127	50 c/s
	(c) Lighting	A.C.	" " "	127	50 c/s

GENERATORS	* CAPACITY	VOLTAGE	TYPE	SERIAL NO.	PRIME MOVER	POSITION IN SHIP
Main 1	690 kVA 0.8 P.F.	400	GSN.1600/12	8003812	Sulzer Oil Engine	E.R.tank top - Port
2	690 kVA 0.8 P.F.	400	GSN.1600/12	8003810	" "	" " " -Stbd. Inb
3	690 kVA 0.8 P.F.	400	GSN.1600/12	8003811	" "	" " "Stbd.outbd.
4	250 kVA 0.8 P.S.	400	AB.530 C/8	500302	Main Oil Eng.	Stbd.E.R.tween dk.level
5	562.5kVA 0.8 P.F.	400	AB.530 M/4	500293	ANSALDO Steam turbine	Stbd.E.R.tween dk level
6						
7						
Emergency 1	188 kVA 0.8 P.F.	400	Dk.556-4/12 Kd.454/84	630317	BREDA Oil E.	Stbd.aft.boat deck
2						
Total	3070.5kVA 0.8 P.F.					
Special purpose 1						
2						

Date of Committee

FRIDAY - 3 SEP 1965

Minute

See Rpt. 1.



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* kW for D.C.; kVA and cos φ for A.C.

NOTE:—The particulars in this report are to be given as fully and clearly as possible. Where the answer is "NO" or "NONE" say so. Ticks and other signs of doubtful meaning are not to be used. Wording not applicable to be cancelled.

GENERATOR MANUFACTURERS:

Main	Emergency	Special purpose
1 OFFICINE ELETTROMECCANICHE TRIESTE, MONFALCONE.	1 Messrs. HANSS STILL A.G. HAMBURG, BILLSTEDT	
2 " " "	2	
3 " " "		
4 ANSALDO SAN GIORGIO, GENOA		1
5 " "		2
6		
7		

RESULTS OF FINAL TESTS:

GENERATOR NO.	GOVERNOR REGULATION FL-NL %	COMPOUNDING 20% FL-FL (D.C. ONLY) %	VOLTAGE REGULATION NL-FL %	IS LOAD SHARING SATISFACTORY?		INSULATION RESISTANCE M Ω
				kW	kVA	
Main	FL-NL	-	less than			more than
1	3(°)	-	0.5	yes	yes	50
2	3(°)	-	0.5	yes	yes	50
3	3(°)	-	0.5	yes	yes	50
4	3(°)	-	0.5	yes	yes	50
5	3(°)	-	0.5	yes	yes	50
Emergency						
1	3.5	-	2	not operating in parallel		50

(°) Governors with adjustable speed-drop characteristics. Regulation within Rules limits even with the worst governor setting.

CABLES:

	GENERATOR	MACHINERY SPACES	ACCOMMODATION	F. & A. GANGWAY (for tankers)
Type	BKAR	BKAR or G KAR	B KAR or G KAR	B KAR or G KAR
Insulation	Butyl	Butyl or rubber	Butyl or rubber	Butyl or rubber
Sheath	p.c.p.	p.c.p.	p.c.p.	p.c.p.
Protection	metal braiding	metal braiding	metal braiding	metal braiding
Outer sheath (if fitted)	p.v.c.	p.v.c.	p.v.c.	p.v.c.

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Port GENOA

Rpt. No. 30070 1

PROTECTIVE EQUIPMENT

Switchboards	LOCATION	R.M.S. symmetrical ESTIMATED FAULT LEVEL kA at $t=T/2$	MAKE AND TYPE	
			CIRCUIT BREAKERS	FUSES
440 Main	fwd. end of E.R. on flat central position	36.9	SACE: OTOMAX P2 FUSOL 500-400-100	SIEMENS DIAZED
440V Emergency	Poop-boat deck stbd. side	13.3	SACE: ISOL 630- ISOL 320-FUSOL100	SIEMENS DIAZED
127V "	" "	1.63	ISOL 160	SIEMENS DIAZED
Sub-				
Section boards and distribution boards	See attached sheets			

NOTE.—Where existing electrical equipment is submitted for classification, the circumstances are to be explained as fully as possible, and the recommendation should be suitably amended.

DECLARATION TO BE SIGNED BY ELECTRICAL CONTRACTORS

- (1) To the best of our knowledge this electrical equipment has been installed in conformity with the Rules, Regulations and requirements of Lloyd's Register of Shipping.
- (2) All cables are guaranteed to have been tested at the manufacturers' works to the following standard: to the Rules of LLOYD'S REGISTER OF SHIPPING
- (3) The foregoing particulars of electrical equipment (as shown on Sheets 1 and 2) are correct

15 GIU. 1965

(date)

ANSALDO S.p.A. - CAN

II Direttore

(signature)

PLANS

Date(s) of approval see under(°)

Do the plans indicate dimensions of cables and loading of all important circuits? yes

A previous similar case was for Ship's Name m.t. "GIUSEPPE VERDI" Yard No. 1597 Rpt. No. GENOA.29569.

The electrical equipment reported above has been constructed in conformity with Rule requirements and installed under Special Survey in accordance with the Rules, approved plans and Secretary's letters. The materials and workmanship are good, and the electrical installation is suitable, in my opinion, for a classed ship.

- (°) 19/11/62
- 30.5.63
- 19.9.63
- 18.11.63
- 12.3.64

