

(Other than for the propulsion of the ship)

FOR CONSIDERATION BY THE COMMITTEE OF LLOYD'S REGISTER OF SHIPPING

Received London

3. 10. 65

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 SESTO

Hull No. 1598

Yr. Mo.  
When 1965 4Electrical equip.  
installed by

"

"

"

"

"

When 1965 4

Fee

Lit - 656.250

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<br>0.8 P.F.    | 400     | GSN.1600/12                | 8003812    | Sulzer Oil Engine     | E.R. tank top - Port       |
|                 | 2 | 690 kVA<br>0.8 P.F.    | 400     | GSN.1600/12                | 8003810    | " "                   | " " " - Stbd. In           |
|                 | 3 | 690 kVA<br>0.8 P.F.    | 400     | GSN.1600/12                | 8003811    | " "                   | " " " Stbd. outbd.         |
|                 | 4 | 250 kVA<br>0.8 P.S.    | 400     | AB.530 C/8                 | 500302     | Main Oil Eng.         | Stbd. E.R. tween dk. level |
|                 | 5 | 562.5 kVA<br>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<br>0.8 P.F.    | 400     | Dk. 556-4/12<br>Kd. 454/84 | 630317     | BREDA Oil E.          | Stbd. aft. boat deck       |
|                 | 2 |                        |         |                            |            |                       |                            |
| Total           |   | 3070.5 kVA<br>0.8 P.F. |         |                            |            |                       |                            |
| Special purpose | 1 |                        |         |                            |            |                       |                            |
|                 | 2 |                        |         |                            |            |                       |                            |

Date of Committee

FRIDAY - 3 SEP 1965

Minute

See Rpt. 1.



© 2021

Lloyd's Register  
Foundation



## GENERATOR MANUFACTURERS:

|      |  |                 |   |   |
|------|--|-----------------|---|---|
| Main | OFFICINE ELETTROMECCANICHE TRIESTE,<br>MONFALCONE. | Emergency       | 1 | Messrs. HANSSTILL A.G. HAMBURG, BILLSTEDT |
| 2    | "  | "               | " | 2   |
| 3    | "  | "               | " |   |
| 4    | ANSALDO SAN GIORGIO, GENOA                         | Special purpose | 1 |   |
| 5    | "  | "               | " | 2   |
| 6    |  |                 |   |   |
| 7    |  |                 |   |   |

## RESULTS OF FINAL TESTS:

| GENERATOR NO. | GOVERNOR<br>REGULATION<br><del>FL-NL</del> % | COMPOUNDING<br>20% FL-FL<br>(D.C. ONLY) % | VOLTAGE<br>REGULATION<br>NL-FL % | IS LOAD SHARING SATISFACTORY? |     | INSULATION<br>RESISTANCE<br>M $\Omega$ |
|---------------|--|---|----------------------------------|-------------------------------|-----|--|
|               |  |   |                                  | 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<br>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<br>(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<br>(if fitted) | p.v.c.         | p.v.c.           | p.v.c.          | p.v.c.                           |



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.

 $0114^{2\frac{1}{2}}$