



ตารางที่ 16 Oil Analysis Assessment

|  |                             | Oil Analysis Assessment |        |                 |  | Document no. |  |
|---|-----------------------------|-------------------------|--------|-----------------|--|--------------|--|
|   |                             |                         |        |                 |  | IEC-ASS-11   |  |
|   |                             |                         |        |                 |  | Page : G3    |  |
| Customer :  | Job no. :                   | Location :              |        | Equipment ID. : |  |              |  |
| Glow Energy   | Contact Glow_01             | COCO2 SUB               |        | ABB SUB TR2     |  |              |  |
| <b>TECHNICAL DATA</b>   |                             |                         |        |                 |  |              |  |
| Method :  | DGA Analysis (ASTM 3812-02) | Capacity (MVA) :        | 50     |                 |  |              |  |
| Unit Number :   | ABB SUB TR2                 | Rated Voltage (kV) :    | 115/23 |                 |  |              |  |
| Location :  | COCO2 SUB                   | Year :                  | 2008   |                 |  |              |  |
| Manufacturer :  | ABB                         | Sampling Point :        | OLTC   |                 |  |              |  |
| Serial Number :   | 508038                      |                         |        |                 |  |              |  |
| Sampled Date  |                             | 21/12/2010              |        |                 |  |              |  |
| Tested Date   |                             | 5/1/2011                |        |                 |  |              |  |
| Component Gas   | Criteria (ppm)              | ppm                     |        |                 |  |              |  |
| O2(Oxygen)  | N/A                         | 52173                   |        |                 |  |              |  |
| N2(Nitrogen)  | N/A                         | 44870                   |        |                 |  |              |  |
| CO2(Carbon Dioxide)   | N/A                         | 780                     |        |                 |  |              |  |
| CO(Carbon Monoxide)   | N/A                         | 15                      |        |                 |  |              |  |
| H2(Hydrogen)  | N/A                         | 16                      |        |                 |  |              |  |
| CH4(Methane)  | N/A                         | 6                       |        |                 |  |              |  |
| C2H2(Acetylene)   | N/A                         | 63                      |        |                 |  |              |  |
| C2H4(Ethylene)  | N/A                         | 8                       |        |                 |  |              |  |
| C2H6(Ethane)  | N/A                         | ND                      |        |                 |  |              |  |
| C3H6(Propylene)   | N/A                         | 15                      |        |                 |  |              |  |
| C3H8(Propane)   | N/A                         | 28                      |        |                 |  |              |  |
| Total Combustible Gas   | N/A                         | 108                     |        |                 |  |              |  |
| Temperature (°C)  |                             | 68                      |        |                 |  |              |  |
| Test Result   | Normal                      |                         |        |                 |  |              |  |

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|   |                             |                         |                 |                 |  | Page : G2    |  |
| Customer :  | Job no. :                   | Location :              |                 | Equipment ID. : |  |              |  |
| Glow Energy   | Contact Glow_01             | TCC1SWGR                |                 | EDTRF-TCC01     |  |              |  |
| <b>TECHNICAL DATA</b>   |                             |                         |                 |                 |  |              |  |
| Method :  | DGA Analysis (ASTM 3812-02) | Capacity (MVA) :        | 4               |                 |  |              |  |
| Unit Number :   | EDTRF-TCC01                 | Rated Voltage (kV) :    | 22/(6.6/3.8/10) |                 |  |              |  |
| Location :  | TCC1SWGR                    | Year :                  | 1996            |                 |  |              |  |
| Manufacturer :  | EKARAT                      | Sampling Point :        | Main Tank       |                 |  |              |  |
| Serial Number :   | 3905095                     |                         |                 |                 |  |              |  |
| Sampled Date  |                             | 21/12/2010              |                 |                 |  |              |  |
| Tested Date   |                             | 5/1/2011                |                 |                 |  |              |  |
| Component Gas   | Criteria (ppm)              | ppm                     |                 |                 |  |              |  |
| O2(Oxygen)  | N/A                         | 34468                   |                 |                 |  |              |  |
| N2(Nitrogen)  | N/A                         | 50845                   |                 |                 |  |              |  |
| CO2(Carbon Dioxide)   | <2500                       | 1221                    |                 |                 |  |              |  |
| CO(Carbon Monoxide)   | <350                        | 79                      |                 |                 |  |              |  |
| H2(Hydrogen)  | <100                        | 30                      |                 |                 |  |              |  |
| CH4(Methane)  | <120                        | 2                       |                 |                 |  |              |  |
| C2H2(Acetylene)   | <2                          | ND                      |                 |                 |  |              |  |
| C2H4(Ethylene)  | <50                         | 4                       |                 |                 |  |              |  |
| C2H6(Ethane)  | <85                         | 16                      |                 |                 |  |              |  |
| C3H6(Propylene)   | N/A                         | 12                      |                 |                 |  |              |  |
| C3H8(Propane)   | N/A                         | 28                      |                 |                 |  |              |  |
| Total Combustible Gas   | 720                         | 171                     |                 |                 |  |              |  |
| Temperature (°C)  |                             | 60                      |                 |                 |  |              |  |
| Test Result   | Normal                      |                         |                 |                 |  |              |  |