

## DAFTAR PUSTAKA

- [1] C. P. McShane, "Vegetable-Oil-Based Dielectric Co.," *IEEE Ind. Appl. Mag.*, vol. 8, no. 3, pp. 34–41, 2017, [Online]. Available: [WWW.IEEE.ORG/IAS](http://WWW.IEEE.ORG/IAS)
- [2] T. V. Oommen, C. C. Claiborne, and J. T. Mullen, "Biodegradable Electrical Insulation Fluids," *Proc. Electr. Insul. Conf.*, pp. 465–468, 2016, doi: 10.1109/eeic.1997.651191.
- [3] R. Setiawan and F. Murdiya, "Perancangan Alat dan Pengujian Tegangan Tembus dengan Minyak Isolasi Refined Bleached and Deodorized Palm Oil Olein Menggunakan Elektroda Bola - Bola," *Jom FTeknik*, vol. 4, no. 2, pp. 1–14, 2017, [Online]. Available: <http://jom.unri.ac.id/index.php/JOMFTEKNIK/article/view/16738>
- [4] A. Rajab, M. Tsuchie, M. Kozako, M. Hikita, and T. Suzuki, "PD properties and gases generated by palm fatty acids esters (PFAE) oil," *Proc. 2016 IEEE Int. Conf. Dielectr. ICD 2016*, vol. 2, pp. 816–819, 2016, doi: 10.1109/ICD.2016.7547741.
- [5] A. Rajab, J. S. Ramadhani, R. Kurniawan, K. Qibran, L. Melda, and M. I. Hamid, "Basic properties evaluation of alkyl palmitate to be used as oil insulation," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 885, no. 1, 2020, doi: 10.1088/1757-899X/885/1/012066.
- [6] G. Yulisusianto, H. Suyono, and R. Nurhasanah, "Diagnosis Kondisi Transformator Berbasis Analisis Gas Terlarut Menggunakan Metode Sistem Pakar Fuzzy," *J. EECCIS*, vol. 9, no. 1, pp. 1–6, 2018.
- [7] R. B. S. Utomo, Hermawan, and A. Nugroho, "STUDI PENGARUH PELUAHAN PARSIAL TERHADAP PENUAAN KUALITAS MINYAK TRANSFORMATOR," *Transient*, vol. 7, no. 1, 2018.
- [8] X. F. Wang, Z. D. Wang, Q. Liu, and P. Dyer, "Dissolved gas analysis of thermal faults in transformer liquids simulated using immersed heating method," *IEEE Trans. Dielectr. Electr. Insul.*, vol. 25, no. 5, pp. 1749–1757, 2018, doi: 10.1109/TDEI.2018.007158.
- [9] H. Yestian, "EVALUASI METODE DISSOLVED GAS ANALYSIS (DGA) UNTUK MENDETEKSI GANGGUAN LISTRIK DISCHARGE OF LOW ENERGY PADA MINYAK MONOESTER SEBAGAI ISOLASI ALTERNATIF TRANSFORMATOR," Padang, 2021.
- [10] A. Rajab, H. Andre, and A. Pawawoi, "Gas Production and Fault Interpretation of Monoesters under Low Thermal Stresses," *Proc. 2nd Int. Conf. High Volt. Eng. Power Syst. Towar. Sustain. Reliab. Power Deliv.*, 2019, doi: 10.1109/ICHVEPS47643.2019.9011047.
- [11] R. Martin, "Experiences in service with new insulating liquids," 2017.

- [12] A. Rajab, H. Gumilang, M. Tsuchie, M. Kozako, M. Hikita, and T. Suzuki, "Study on static electrification of the PFAE-mineral oil mixture," in *IOP Conference Series: Materials Science and Engineering*, 2019, vol. 602, no. 1. doi: 10.1088/1757-899X/602/1/012019.
- [13] C. P. McShane, J. Luksich, and K. J. Rapp, "Retrofilling aging transformers with natural ester based dielectric coolant for safety and life extension," in *Cement Industry Technical Conference, 2016. Conference Record. IEEE-IAS/PCA 2016*, 2016, pp. 141–147. doi: 10.1109/CITCON.2016.1204715.
- [14] H. L. Latupeirissa, "Analisa Umur Pakai Transformator Distribusi 20 KV Di PT. PLN Cabang Ambon," *J. Simetrik*, vol. 8, no. 2, pp. 126–132, 2018, doi: 10.31959/js.v8i2.101.
- [15] M. Y. Yusuf, Firdaus, and Feranita, "Analisa Konfigurasi Hubungan Primer dan Sekunder Transformator 3 Fasa 380/24 V Terhadap Beban Non Linier," *Jom FTeknik*, vol. 3, no. 1, pp. 1–12, 2016.
- [16] W. Y. Kunto Wibowo and A. Syakur, "Analisis Karakteristik Breakdown Voltage pada Dielektrik Minyak Shell Diala B pada Suhu 30C-130C," *Dipenogoro Univ.*, 2018.
- [17] Sofyan, Ruslan, and A. Efendi, "Studi Penuaan Minyak Transformator Distribusi," *Pros. Semin. Has. Penelit.* 2018, vol. 2018, pp. 63–71, 2018.
- [18] I. Garniwa and R. N. Bustami, "Analisis Pengaruh Kenaikan Suhu Isolasi Minyak Dan Kertas Serta Jumlah Lapisan Isolasi Kertas Terhadap Tegangan Tembus Isolasi Transformator," *Univ. Indones.*, 2016.
- [19] T. A. Prevost and T. V. Oommen, "Cellulose Insulation in Oil-Filled Power Transformers: Part II - Insulation Integrity and Life," *IEEE Electr. Insul. Mag.*, vol. 22, no. 2, pp. 5–14, 2016, doi: 10.1109/MEI.2006.1618969.
- [20] A. Chumaidy, "Analisis Kegagalan Minyak Isolasi Pada Transformator Daya Berbasis Kandungan Gas Terlarut," *Sainstech J. Penelit. dan Pengkaj. Sains dan Teknol.*, vol. 22, no. 1, pp. 41–54, 2020, doi: 10.37277/stch.v22i1.577.
- [21] D. A. Fertoni, "ANALISIS GAS TERLARUT DALAM MINYAK MONOESTER ASAM LEMAK JENUH AKIBAT GANGGUAN LISTRIK DISCHARGES OF LOW ENERGY SEBAGAI MINYAK ISOLASI TRANSFORMATOR ALTERNATIF," vol. 26, no. 2, pp. 173–180, 2021, [Online]. Available: <http://www.ufrgs.br/actavet/31-1/artigo552.pdf>
- [22] X. Shi, "The Crystalline Structure of Polydimethylsiloxane: Additional Results and Additional Questions," *Univ. Paris-Saclay*, p. 169, 2021, [Online]. Available: <https://tel.archives-ouvertes.fr/tel-03266623>
- [23] A. Syakur, W. Lazuardi, and P. Korespondensi, "Penerapan Metode Interpretasi Rasio Roger, Segitiga Duval, Breakdown Test, dan Water Content Test untuk Diagnosis Kelayakan Minyak Transformator," *Teknik*, vol. 40, no. 1, pp. 63–68, 2019, doi: 10.14710/teknik.v40n1.22056.

- [24] P. Verma, M. Roy, A. Verma, and V. Bhanot, "Assessment of transformer insulation system by evaluating partial discharge and dissolved gas analysis," *J. Sci. Ind. Res. (India)*, vol. 64, no. 4, pp. 262–267, 2016.
- [25] C. Perrier, M. Marugan, and A. Beroual, "DGA comparison between ester and mineral oils," *IEEE Trans. Dielectr. Electr. Insul.*, vol. 19, no. 5, pp. 1609–1614, 2017, doi: 10.1109/TDEI.2012.6311507.
- [26] N. Naibaho, "Analisis Kegagalan Transformator Berdasarkan Hasil Pengujian DGA," *Ft Semin. Nas. Sinergi Energi Teknol.*, pp. 98–106, 2018, [Online]. Available: <http://jurnal.unismabekasi.ac.id/index.php/sinergi/article/view/834>
- [27] R. Hardityo, "Deteksi Dan Analisis Indikasi Kegagalan Transformator Dengan Metode Analisis Gas Terlarut," *Skripsi Univ. Indones.*, pp. 1–67, 2019.
- [28] I. S. Chairul, S. A. Ghani, N. H. A. Aziz, M. S. A. Khiar, M. S. Johal, and M. A. Azmi, "Effect of electrical discharge on the properties of natural esters insulating fluids," *Indones. J. Electr. Eng. Comput. Sci.*, vol. 23, no. 3, pp. 1281–1288, 2021, doi: 10.11591/ijeecs.v23.i3.pp1281-1288.
- [29] R. Edf, D. France, P. Lauzevis, and E. France, "22 nd International Conference on Electricity Distribution Stockholm , 10-13 June 2013 Paper 0382 DEVELOPMENT OF A LOW VISCOSITY INSULATING LIQUID BASED ON NATURAL ESTERS FOR DISTRIBUTION TRANSFORMERS Chemistry of natural esters , triglycerides and fatty ," no. 0382, pp. 10–13, 2017.
- [30] M. Florkowski, "Anomaly detection, trend evolution, and feature extraction in partial discharge patterns," *Energies*, vol. 14, no. 13, 2021, doi: 10.3390/en14133886.
- [31] M. Latif, "Pengaruh Temperatur Terhadap Kekuatan Dielektrik Minyak Nabati Sebagai Bahan Isolasi Transformator Daya," *Teknika*, vol. 1, no. 30, pp. 48–51, 2018.