

รายการอ้างอิง

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- AG, D. H. (2024). *DustDecoder 11-D*. <https://www.durag.com/en/product-filter-837.htm?productID=DustDecoder%2011-D>
- Agarwal, A. K., Gupta, J. G., & Dhar, A. (2017). Potential and challenges for large-scale application of biodiesel in automotive sector. *Progress in Energy and Combustion Science*, 61, 113–149. <https://doi.org/10.1016/j.pecs.2017.03.002>
- Al Suleimani, Y., AlMahruqi, A., Al Za'abi, M., Shalaby, A., Ashique, M., Nemmar, A., & Ali, B. (2016). Effect of diesel exhaust particles on renal vascular responses in rats with chronic kidney disease. *Environmental Toxicology*, 32. <https://doi.org/10.1002/tox.22258>
- Aljaafari, A., Fattah, I. M. R., Jahirul, M. I., Gu, Y., Mahlia, T. M. I., Islam, M. A., & Islam, M. S. (2022). Biodiesel Emissions: A State-of-the-Art Review on Health and Environmental Impacts. *Energies*, 15(18). <https://doi.org/10.3390/en15186854>
- Analytical Equipment Department. (2024). *GC-MS/Series 3XO*. https://analytical.sut.ac.th/eq_page.php?id=2013
- Applied Scientific Instruments Co., Ltd. (2017a, January 26). Specific Gravity Hydrometer. *ASI Thailand*. <https://asithailand.com/other-products/>
- Applied Scientific Instruments Co., Ltd. (2017b, January 26). Viscosity Bath acc. To ASTM D445. *ASI Thailand*. <https://asithailand.com/other-products/>
- Argus Media Group Copyright, R. (2023, August 30). *Malaysia targets B30 mandate for heavy vehicles by 2030*. <https://www.argusmedia.com/en/news-and-insights/latest-market-news/2484262-malaysia-targets-b30-mandate-for-heavy-vehicles-by-2030>
- ASTM standards. (2024). *ASTM International—Standards*. <https://www.astm.org/>
- Automated cetane ID 510 analyzer (ASTM D613). (2024). *Optimus*. <https://optimus.be/product/automated-cetane-id-510-analyzer-astm-d613/>
- AUTOPROFI. (2024). *COMMON-RAIL DIESEL SYSTEM CLEAN*. Bluechem Canada. <https://www.bluechem.ca/products/autoprofi-common-rail-diesel-system-clean-protect>

- Ayetor, G. K., Mbonigaba, I., Sackey, M. N., & Andoh, P. Y. (2021). Vehicle regulations in Africa: Impact on used vehicle import and new vehicle sales. *Transportation Research Interdisciplinary Perspectives*, 10, 100384. <https://doi.org/10.1016/j.trip.2021.100384>
- Bächler, P., Meyer, J., & Dittler, A. (2022). Measurement of transient nanoparticle emissions of pulse-jet cleaned filters applying an engine exhaust particle sizer. *Aerosol Science and Technology*, 56(4), 394–402. <https://doi.org/10.1080/02786826.2022.2027335>
- Bai, Y., Lan, Q., Fan, L., Ma, X., & Liu, H. (2021). Investigation on the fuel injection stability of high pressure common rail system for diesel engines. *International Journal of Engine Research*, 22(2), 616–631. <https://doi.org/10.1177/1468087419856981>
- Bang-Quan He. (2016). Advances in emission characteristics of diesel engines using different biodiesel fuels. *Renewable and Sustainable Energy Reviews*, 60, 570–586. <https://doi.org/10.1016/j.rser.2016.01.093>
- Biofuels International magazine. (2023, September 1). *B30 biodiesel mandate pencilled in for 2030 in Malaysia* | Biofuels International Magazine. <https://biofuels-news.com/news/b30-biodiesel-mandate-pencilled-in-for-2030-in-malaysia/>
- Bisetto, D., Kundu, A., Ghosh, E., & Kar, N. (2024). Case Study of NEDC and WLTP Driving Cycle Test Methods on Inverter Efficiency and Losses. *UWill Discover Student Research Conference*. <https://scholar.uwindsor.ca/uwilldiscover/2020/online/146>
- Brahma, S., Nath, B., Basumatary, B., Das, B., Saikia, P., Patir, K., & Basumatary, S. (2022). Biodiesel production from mixed oils: A sustainable approach towards industrial biofuel production. *Chemical Engineering Journal Advances*, 10, 100284. <https://doi.org/10.1016/j.cej.2022.100284>
- Burtscher, H. (2005). Physical characterization of particulate emissions from diesel engines: A review. *Aerosol Science*, 36, 896–932. <https://doi.org/10.1016/j.jaerosci.2004.12.001>
- Chaiyakham, N., Boonruksa, P., Prompiputtanapon, K., & Batsungnoen, K. (2024). Characteristics of particulate matter emissions from a ten-year-old diesel pickup truck in laboratory driving simulations. *Journal of Medicine and Public Health, Ubon Ratchathani University*, 7(2), Article 2.

- Chu-Van, T., Surawski, N., Ristovski, Z., Yuan, C.-S., Stevanovic, S., Ashrafur Rahman, S. M., Hossain, F. M., Guo, Y., Rainey, T., & Brown, R. J. (2020). The effect of diesel fuel sulphur and vanadium on engine performance and emissions. *Fuel*, 261, 116437. <https://doi.org/10.1016/j.fuel.2019.116437>
- da Silveira Fleck, A., Catto, C., L'Espérance, G., Masse, J.-P., Roberge, B., & Debia, M. (2020). Characterization and Quantification of Ultrafine Particles and Carbonaceous Components from Occupational Exposures to Diesel Particulate Matter in Selected Workplaces. *Annals of Work Exposures and Health*, 64(5), 490–502. <https://doi.org/10.1093/annweh/wxaa027>
- Dahham, R. Y., Wei, H., & Pan, J. (2014). Improving Thermal Efficiency of Internal Combustion Engines: Recent Progress and Remaining Challenges. *Energies*, 15(17), Article 17. <https://doi.org/10.3390/en15176222>
- Dai, Y., Zhang, X., Zhang, R., Zhao, X., Duan, H., Niu, Y., Huang, C., Meng, T., Ye, M., Bin, P., Shen, M., Jia, X., Wang, H., Yu, S., & Zheng, Y. (2016). Long-term exposure to diesel engine exhaust affects cytokine expression among occupational population. *Toxicology Research*, 5(2), 674–681. <https://doi.org/10.1039/c5tx00462d>
- Dangsunthonchai, M., Visuwan, P., Komintarachat, C., Theinnoi, K., & Chuepeng, S. (2022). Nanoparticle Components and Number-Size Distribution of Waste Cooking Oil-Based Biodiesel Exhaust Gas from a Diesel Particulate Filter-Equipped Engine. *ACS Omega*, 7(4), 3384–3394. <https://doi.org/10.1021/acsomega.1c05627>
- Delphi Technologies. (2024). *Common Rail injectors*. <https://www.delphiautoparts.com/resource-center/article/best-practice-advice-for-servicing-common-rail-injectors>
- Demuynck, J., Dauphin, R., Yugo, M., Mendoza Villafuerte, P., & Bosteels, D. (2021). Advanced Emission Controls and Sustainable Renewable Fuels for Low Pollutant and CO₂ Emissions on a Diesel Passenger Car. *Sustainability*, 13(22), 12711. <https://doi.org/10.3390/su132212711>
- Department of Land Transport. (2023a). *Record of operations regarding vehicle registration and tax*. <https://web.dlt.go.th/statistics/>
- Department of Land Transport. (2023b). *Registered vehicles (cumulative)*. <https://web.dlt.go.th/statistics/>

- Di, Q., Dai, L., Wang, Y., Zanobetti, A., Choirat, C., Schwartz, J. D., & Dominici, F. (2017). Association of Short-term Exposure to Air Pollution With Mortality in Older Adults. *JAMA*, 318(24), 2446–2456. <https://doi.org/10.1001/jama.2017.17923>
- DURAG GROUP. (2026). *Scanning mobility particle sizer SMPS+C | DURAG GROUP*. <https://www.durag.com/en/product-filter-837.htm?productID=SMPS%2BC>
- Energy Policy and Planning office (EPPO). (2011). กพช. ครั้งที่ 137—วันศุกร์ที่ 26 สิงหาคม 2554 มาตรการชะลอการเรียกเก็บเงินเข้ากองทุนน้ำมันเชื้อเพลิงจากน้ำมันเบนซิน และน้ำมันดีเซลเพื่อลดภาระของผู้บริโภค. <https://www.eppo.go.th/epposite/index.php/th/petroleum/oil/link-doeb/item/1264-nepc-yingluck137>
- Environmental XPRT. (2024). *GRIMM 11-D Dust Decoder—Portable Aerosol Spectrometer*. Environmental XPRT. <https://www.environmental-expert.com/products/grimm-model-11-d-dust-decoder-portable-aerosol-spectrometer-699118>
- European Commission. (2006). *Euro 5 and 6 will reduce emissions from cars by European Commission*. [Text]. European Commission - European Commission. https://ec.europa.eu/commission/presscorner/detail/en/MEMO_06_409
- Fukagawa, N. K., Li, M., Poynter, M. E., Palmer, B. C., Parker, E., Kasumba, J., & Holmén, B. A. (2013). Soy Biodiesel and Petrodiesel Emissions Differ in Size, Chemical Composition and Stimulation of Inflammatory Responses in Cells and Animals. *Environmental Science & Technology*, 47(21), 12496–12504. <https://doi.org/10.1021/es403146c>
- Full-Repair.com. (2012). *Common Rail Bosch Injectors Cleaning*. <https://www.full-repair.com/technics-repair/auto/common-rail-injectors-cleaning/>
- Giechaskiel, B., Lähde, T., & Drossinos, Y. (2019). Regulating particle number measurements from the tailpipe of light-duty vehicles: The next step? *Environmental Research*, 172, 1–9. <https://doi.org/10.1016/j.envres.2019.02.006>
- Goyal, H., Dyuisenakhmetov, A., Houidi, M. B., Johansson, B., Badra, J., Cenker, E., & Chang, J. (2020). The Effect of Engine Speed, Exhaust Gas Recirculation, and Compression Ratio on Isobaric Combustion. *SAE International Journal of Engines*, 13(5), 603–616.

- Guan, C., Zhai, J., & Han, D. (2019). Cetane number prediction for hydrocarbons from molecular structural descriptors based on active subspace methodology. *Fuel*, 249, 1–7. <https://doi.org/10.1016/j.fuel.2019.03.092>
- Gunawan, C., Fleming, C., Irga, P. J., Jien Wong, R., Amal, R., Torpy, F. R., Mojtaba Golzan, S., & McGrath, K. C. (2024). Neurodegenerative effects of air pollutant Particles: Biological mechanisms implicated for Early-Onset Alzheimer's disease. *Environment International*, 185, 108512. <https://doi.org/10.1016/j.envint.2024.108512>
- Gupta, S., & Sharma, M. P. (2023). Impact of binary blends of biodiesels on fuel quality, engine performance and emission characteristics. *Clean Energy*, 7(2), 417–425. <https://doi.org/10.1093/ce/zkad002>
- Hanny Frans Sangian. (2021). STUDY OF THE COMPOSITIONS AND FUEL PARAMETERS OF THE EMULSION FUELS BIODIESEL-AQUEOUS ETHANOL AND BIODIESEL-AQUEOUS ETHANOL-DIESEL. *ResearchGate*. https://www.researchgate.net/publication/351736769_STUDY_OF_THE_COMPOSITIONS_AND_FUEL_PARAMETERS_OF_THE_EMULSION_FUELS_BIODIESEL-AQUEOUS_ETHANOL_AND_BIODIESEL-AQUEOUS_ETHANOL-DIESEL
- Hodovny, S., Chong, C. T., Józsa, V., Mehmood, M. Q., Xiong, J., Szabó, G., Bozóki, Z., Rahman, A., & Ajtai, T. (2025). Demonstration of particulate matter characterization from HVO-blended diesel using an integrated multi-instrument approach. *Scientific Reports*, 16(1), 2024. <https://doi.org/10.1038/s41598-025-31742-3>
- Hou, K., Deng, B., Chen, Y., Ran, J., & Fu, J. (2021). For cleaner exhaust of a high performance motorcycle: A macroscopic comparative study of catalytic converters under world-wide motorcycle test cycle. *Journal of Cleaner Production*, 284, 124730. <https://doi.org/10.1016/j.jclepro.2020.124730>
- IARC. (2012, June 12). IARC: Diesel engine exhaust carcinogenic. <https://www.iarc.who.int/search>
- INEGI. (2024). Flash Point and Burning Point (ASTM D92–98th). INEGI. <https://www.inegi.pt/en/services/laboratory-services/laboratories/lubricant-analysis-laboratory/flash-point-and-burning-point/>
- INNOVATIVE INSTRUMENT. (2026). Filter Membranes เก็บตัวอย่างอากาศ. *Innovative*. <https://www.innovative-instrument.com/product/filter-membranes/>

- Jankowska, E. (2010). Mass and Number Concentration and Size Distribution of Particles Emitted from Diesel Engine. *International Journal of Thermal and Environmental Engineering*, 3. <https://doi.org/10.5383/ijtee.03.02.008>
- Jung, S., Lim, J., Kwon, S., Jeon, S., Kim, J., Lee, J., & Kim, S. (2017). Characterization of particulate matter from diesel passenger cars tested on chassis dynamometers. *Journal of Environmental Sciences*, 54, 21–32. <https://doi.org/10.1016/j.jes.2016.01.035>
- Kawassaki, R. K., Romano, M., Dietrich, N., & Araki, K. (2021). Titanium and Iron Oxide Nanoparticles for Cancer Therapy: Surface Chemistry and Biological Implications. *Frontiers in Nanotechnology*, 3. <https://doi.org/10.3389/fnano.2021.735434>
- KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL REPUBLIK INDONESIA DIREKTORAT JENDERAL MINYAK DAN GAS BUMI. (2020). *Keputusan Dirjen Migas Tentang Standar dan Mutu (Spesifikasi) Bahan Bakar Minyak Jenis Avtur yang Dipasarkan di Dalam Negeri*. <https://migas.esdm.go.id/post/read/keputusan-dirjen-migas-tentang-standar-dan-mutu-spesifikasi-bahan-bakar-minyak-jenis-avtur-yang-dipasarkan-di-dalam-negeri>
- Kim, J., Peters, C. E., Arrandale, V. H., Labrèche, F., Ge, C. B., McLeod, C. B., Song, C., Lavoué, J., Davies, H. W., Nicol, A.-M., Pahwa, M., & Demers, P. A. (2018). Burden of lung cancer attributable to occupational diesel engine exhaust exposure in Canada. *Occupational and Environmental Medicine*, 75(9), 617–622. <https://doi.org/10.1136/oemed-2017-104950>
- Kittelson, D. B. (1998). Engines and nanoparticles: A review. *Journal of Aerosol Science*, 29(5), 575–588. [https://doi.org/10.1016/S0021-8502\(97\)10037-4](https://doi.org/10.1016/S0021-8502(97)10037-4)
- Kozina, A., Radica, G., & Nižetić, S. (2020). Analysis of methods towards reduction of harmful pollutants from diesel engines. *Journal of Cleaner Production*, 262, 121105. <https://doi.org/10.1016/j.jclepro.2020.121105>
- Lamba, B. Y., & Chen, W.-H. (2022). Experimental Investigation of Biodiesel Blends with High-Speed Diesels—A Comprehensive Study. *Energies*, 15(21). <https://doi.org/10.3390/en15217878>
- Latifovic, L., Villeneuve, P. J., Parent, M.-É., Johnson, K. C., Kachuri, L., Group, the C. C. R. E., & Harris, S. A. (2015). Bladder cancer and occupational exposure to diesel and gasoline engine emissions among Canadian men. *Cancer Medicine*, 4(12), 1948–1962. <https://doi.org/10.1002/cam4.544>

- Lu, Y., Zhang, Z., Lin, F., Wang, H., & Wang, Y. (2020). Single-atom Automobile Exhaust Catalysts. *ChemNanoMat*, 6(12), 1659–1682. <https://doi.org/10.1002/cnma.202000407>
- Mehus, A. A., Reed, R. J., Lee, V. S. T., Littau, S. R., Hu, C., Lutz, E. A., & Burgess, J. L. (2015). Comparison of Acute Health Effects From Exposures to Diesel and Biodiesel Fuel Emissions. *Journal of Occupational and Environmental Medicine*, 57(7), 705–712. <https://doi.org/10.1097/JOM.0000000000000473>
- Mon Phyo, M. Z., Phairote, W., Srilomsak, M., Charoenphonphanich, C., Masomtob, M., Chollacoop, N., Srimanosaowapak, S., Hanamura, K., & Karin, P. (2024). Effect of a retrofitted metallic microfiber partial flow diesel particulate filter on a light duty diesel vehicle particle emission characteristics. *Journal of the Energy Institute*, 112, 101491. <https://doi.org/10.1016/j.joei.2023.101491>
- Moolgavkar, S. H., Chang, E. T., Luebeck, G., Lau, E. C., Watson, H. N., Crump, K. S., Boffetta, P., & McClellan, R. (2015). Diesel Engine Exhaust and Lung Cancer Mortality: Time-Related Factors in Exposure and Risk. *Risk Analysis*, 35(4), 663–675. <https://doi.org/10.1111/risa.12315>
- Motorival. (2019, April 4). ชูปเปอร์ชาร์จเจอร์ และ เทอร์โบชาร์จเจอร์. *Motorival.Com*. <https://www.motorival.com/tips-trick-turbo-supercharge-comparison/>
- Nguyen, V. G., Pham, M. T., Le, N. V. L., Le, H. C., Truong, T. H., & Cao, D. N. (2023). A comprehensive review on the use of biodiesel for diesel engines. *International Journal of Renewable Energy Development*, 12(4), 720–740. <https://doi.org/10.14710/ijred.2023.54612>
- Osman, N. M., Sexton, D. W., & Saleem, I. Y. (2020). Toxicological assessment of nanoparticle interactions with the pulmonary system. *Nanotoxicology*, 14(1), 21–58. <https://doi.org/10.1080/17435390.2019.1661043>
- Pielecha, I., Stępień, Z., Szwajca, F., & Kinal, G. (2023). Effectiveness of Butanol and Deposit Control Additive in Fuel to Reduce Deposits of Gasoline Direct Injection Engine Injectors. *Energies*, 16(1), Article 1. <https://doi.org/10.3390/en16010077>
- Prakash, S., Prabhakar, M., & Saravana Kumar, M. (2022). Experimental analysis of diesel engine behaviours using biodiesel with different exhaust gas recirculation rates. *International Journal of Ambient Energy*, 43(1), 1508–1517. <https://doi.org/10.1080/01430750.2020.1712251>
- Program, N. T. (2021). Diesel Exhaust Particulates. In *15th Report on Carcinogens [Internet]*. National Toxicology Program. <https://www.ncbi.nlm.nih.gov/books/NBK590901/>

- Raftis, J. B., & Miller, M. R. (2019). Nanoparticle translocation and multi-organ toxicity: A particularly small problem. *Nano Today*, 26, 8–12. <https://doi.org/10.1016/j.nantod.2019.03.010>
- Reis, H., Reis, C., Sharip, A., Reis, W., Zhao, Y., Sinclair, R., & Beeson, L. (2018). Diesel exhaust exposure, its multi-system effects, and the effect of new technology diesel exhaust. *Environment International*, 114, 252–265. <https://doi.org/10.1016/j.envint.2018.02.042>
- Reşitoğlu, İ. A., Altinişik, K., & Keskin, A. (2015). The pollutant emissions from diesel-engine vehicles and exhaust aftertreatment systems. *Clean Technologies and Environmental Policy*, 17(1), 15–27. <https://doi.org/10.1007/s10098-014-0793-9>
- Sathiyamoorthi, R., Sankaranarayanan, G., Munuswamy, D. B., & Devarajan, Y. (2021). Experimental study of spray analysis for Palmarosa biodiesel-diesel blends in a constant volume chamber. *Environmental Progress & Sustainable Energy*, 40(6), e13696. <https://doi.org/10.1002/ep.13696>
- Sathiyaseelan, V. (2026, February 11). *Comprehensive Spectroscopic and Chromatographic Analysis of Waste Fish Oil Biodiesel using NMR, GC-MS, and FTIR Techniques for Sustainable Alternative Fuel Production* | Request PDF. ResearchGate. https://www.researchgate.net/publication/400587894_Comprehensive_Spectroscopic_and_Chromatographic_Analysis_of_Waste_Fish_Oil_Biodiesel_using_NMR_GC-MS_and_FTIR_Techniques_for_Sustainable_Alternative_Fuel_Production
- Sensidyne, LP. All Rights Reserved. (2026). *Gilibrator-2 Primary Calibrator*. <https://sensidyne.com/shop/gilibrator-2-primary-calibrator/>
- Sethin, A., Oo, Y. M., Thawornprasert, J., & Somnuk, K. (2024). Effects of Blended Diesel-Biodiesel Fuel on Emissions of a Common Rail Direct Injection Diesel Engine with Different Exhaust Gas Recirculation Rates. *ACS Omega*, 9(19), 20906–20918. <https://doi.org/10.1021/acsomega.3c10125>
- Sethin, A., & Somnuk, K. (2022). Effect of Biodiesel B7 and B10 on Common Rail Diesel Engine Emission Characteristics at Different Engine Speeds. *IOP Conference Series: Earth and Environmental Science*, 1050(1), 012014. <https://doi.org/10.1088/1755-1315/1050/1/012014>

- Shabanov, A. Y., Galyshev, Y. V., Zaitsev, A. B., & Sidorov, A. A. (2020). Analysis of the effect of detergent additives on fuel on the performance of a diesel engine. *IOP Conference Series: Materials Science and Engineering*, 791(1), 012073. <https://doi.org/10.1088/1757-899X/791/1/012073>
- SKC Inc. (2026). *Universal PCXR4 Pump*. <https://international.skcinc.com/universal-pcxr4-pump-224-pcxr4>
- STREC CHULA. (2024). *FESEM-EDS (7610F) – STREC*. <https://strec.chula.ac.th/equipments-rates/field-emission-scanning-electron-microscope-and-energy-dispersive-x-ray-spectrometer-fesem-eds-7610f>
- Sydbom, A., Blomberg, A., Parnia, S., Stenfors, N., Sandström, T., & Dahlén, S.-E. (2001). Health effects of diesel exhaust emissions. *European Respiratory Journal*, 17(4), 733–746. <https://doi.org/10.1183/09031936.01.17407330>
- Szabados, G., & Bereczky, Á. (2018). Experimental investigation of physicochemical properties of diesel, biodiesel and TBK-biodiesel fuels and combustion and emission analysis in CI internal combustion engine. *Renewable Energy*, 121(C), 568–578.
- SZYMANSKI, P., Ciuffo, B., Fontaras, G., Martini, G., & Pekár, F. (2021). The future of road transport in Europe. Environmental implications of automated, connected and low-carbon mobility. *Combustion Engines*, 186, 3–10. <https://doi.org/10.19206/CE-141605>
- Tan, P., Hu, Z., Lou, D., & Li, B. (2009, November 2). *Particle Number and Size Distribution from a Diesel Engine with Jatropha Biodiesel Fuel*. <https://doi.org/10.4271/2009-01-2726>
- Taxell, P., & Santonen, T. (2017). Diesel Engine Exhaust: Basis for Occupational Exposure Limit Value. *Toxicological Sciences*, 158(2), 243–251. <https://doi.org/10.1093/toxsci/kfx110>
- The Ministry of Energy and Mineral Resources. (2019). *Road Test Completes, Ministry of EMR Announces Technical Recommendations on Mandatory B30 in 2020*. ESDM. <https://www.esdm.go.id/en/media-center/news-archives/road-test-completes-ministry-of-emr-announces-technical-recommendations-on-mandatory-b30-in-2020>
- Thitipatanapong, S., Poranat Visuwan, & Cholada Komintarachat. (2022, February 4). *Insight into Nanoparticle-Number-Derived Characteristics of Precharged Biodiesel*

- Exhaust Gas in Nonthermal Plasma State* | ACS Omega.
<https://doi.org/10.1021/acsomega.1c06597>
- TSI Incorporated. (2024). *Engine Exhaust Particle Sizer (EEPS) 3090*. TSI.Com.
[https://tsi.com/Products/Particle-Sizers/Fast-Particle-Sizer-Spectrometers/Engine-Exhaust-Particle-Sizer-\(EEPS\)-3090](https://tsi.com/Products/Particle-Sizers/Fast-Particle-Sizer-Spectrometers/Engine-Exhaust-Particle-Sizer-(EEPS)-3090)
- TSI Incorporated. (2026). *Engine Exhaust Particle Sizer (EEPS) 3090*.
[https://tsi.com/products/particle-sizers/fast-particle-sizer-spectrometers/engine-exhaust-particle-sizer-\(eeps\)-3090](https://tsi.com/products/particle-sizers/fast-particle-sizer-spectrometers/engine-exhaust-particle-sizer-(eeps)-3090)
- Vansevenant, B., Louis, C., Ferronato, C., Fine, L., Tassel, P., Perret, P., Kostenidou, E., Temime-Roussel, B., D'Anna, B., Sartelet, K., Cerezo, V., & Liu, Y. (2021). Evolution under dark conditions of particles from old and modern diesel vehicles in a new environmental chamber characterized with fresh exhaust emissions. *Atmospheric Measurement Techniques*, 14(12), 7627–7655. <https://doi.org/10.5194/amt-14-7627-2021>
- Verma, P., Jafari, M., Guo, Y., Pickering, E., Stevanovic, S., Bodisco, T. A., Fernando, J. F. S., Golberg, D., Brooks, P., Brown, R., & Ristovski, Z. (2019). Experimental Analysis of the Morphology and Nanostructure of Soot Particles for Butanol/Diesel Blends at Different Engine Operating Modes. *Energy & Fuels*, 33(6), 5632–5646. <https://doi.org/10.1021/acs.energyfuels.9b00368>
- Wang, B., Or, W.-H., Lee, S.-C., Leung, Y.-C., Organ, B., & Ho, K.-F. (2021). Characteristics of particle emissions from light duty diesel vehicle fueled with ultralow sulphur diesel and biodiesel blend. *Atmospheric Pollution Research*, 12(9), 101169. <https://doi.org/10.1016/j.apr.2021.101169>
- Wang, M., Aaron, C. P., Madrigano, J., Hoffman, E. A., Angelini, E., Yang, J., Laine, A., Vetterli, T. M., Kinney, P. L., Sampson, P. D., Sheppard, L. E., Szpiro, A. A., Adar, S. D., Kirwa, K., Smith, B., Lederer, D. J., Diez-Roux, A. V., Vedal, S., Kaufman, J. D., & Barr, R. G. (2019). Association Between Long-term Exposure to Ambient Air Pollution and Change in Quantitatively Assessed Emphysema and Lung Function. *JAMA*, 322(6), 546–556. <https://doi.org/10.1001/jama.2019.10255>

- Wang, M., Wang, Z., Wang, Y., Shi, Z., Peng, B., Zhang, F., Wang, G., & Yang, Y. (2026). Stagnant oxidative potential in declining agricultural fleets: Evidence from key particulate matter composition despite fleet renewal. *Eco-Environment & Health*, 5(2), 100230. <https://doi.org/10.1016/j.eehl.2026.100230>
- WHO. (2021, September 22). *Quality guidelines*. <https://www.who.int/news-room/feature-stories/detail/what-are-the-who-air-quality-guidelines>
- Widayat, W., Maheswari, N. T., Fitriani, W., Buchori, L., Satriadi, H., Kusmiyati, K., & Ngadi, N. (2023). Preparation of MgO-CaO/SiO₂ catalyst from dolomite and geothermal solid waste for biodiesel production. *International Journal of Renewable Energy Development*, 12(3), 541–549. <https://doi.org/10.14710/ijred.2023.51573>
- Win-Shwe, T.-T., Kyi-Tha-Thu, C., Moe, Y., Fujitani, Y., Tsukahara, S., & Hirano, S. (2016). Exposure of BALB/c Mice to Diesel Engine Exhaust Origin Secondary Organic Aerosol (DE-SOA) during the Developmental Stages Impairs the Social Behavior in Adult Life of the Males. *Frontiers in Neuroscience*, 9. <https://doi.org/10.3389/fnins.2015.00524>
- Woodford. (2022, June 22). *How do diesel engines work?* Explain That Stuff. <http://www.explainthatstuff.com/diesel-engines.html>
- Wooding, D. J., Ryu, M. H., Hüls, A., Lee, A. D., Lin, D. T. S., Rider, C. F., Yuen, A. C. Y., & Carlsten, C. (2019). Particle Depletion Does Not Remediate Acute Effects of Traffic-related Air Pollution and Allergen. A Randomized, Double-Blind Crossover Study. *American Journal of Respiratory and Critical Care Medicine*, 200(5), 565–574. <https://doi.org/10.1164/rccm.201809-1657OC>
- Xu, D., Yu, H., Cai, W., Xu, J., & Li, J. (2025). Primary Particulate Matter and Aerosol Emissions from Biodiesel Engines During Idling in Plateau Environments of China. *Sustainability*, 17(3), Article 3. <https://doi.org/10.3390/su17030976>
- Xue, J., Grift, T. E., & Hansen, A. C. (2011). Effect of biodiesel on engine performances and emissions. *Renewable and Sustainable Energy Reviews*, 15(2), 1098–1116. <https://doi.org/10.1016/j.rser.2010.11.016>
- Yang, N., Deng, X., Liu, B., Li, L., Li, Y., Li, P., Tang, M., & Wu, L. (2022). Combustion Performance and Emission Characteristics of Marine Engine Burning with Different Biodiesel. *Energies*, 15(14), 5177. <https://doi.org/10.3390/en15145177>

- Zare, A., Bodisco, T. A., Verma, P., Jafari, M., Babaie, M., Yang, L., Rahman, M. M., Banks, A. P. W., Ristovski, Z. D., Brown, R. J., & Stevanovic, S. (2022). Particulate number emissions during cold-start with diesel and biofuels: A special focus on particle size distribution. *Sustainable Energy Technologies and Assessments*, 51, 101953. <https://doi.org/10.1016/j.seta.2022.101953>
- Zhang, F., Peng, J., Zhang, J., Liu, J., Wu, Y., Liu, P., Liu, K., Sun, B., Zhang, Q., Wu, L., Yang, N., Hu, W., & Mao, H. (2025). Real world particle size distribution from vehicle fleet and implication on emission control. *Npj Clean Air*, 1(1), 8. <https://doi.org/10.1038/s44407-025-00007-8>
- Zhang, X., Lyu, G., Song, C., & Qiao, Y. (2020). Effects of Biodiesel Addition on the Physical Properties and Reactivity of the Exhaust Soot Particles from Diesel Engine. *Energies*, 13(16), 4206. <https://doi.org/10.3390/en13164206>
- กรมชลประทาน กระทรวงเกษตรและสหกรณ์. (2567). กรมชลประทาน กระทรวงเกษตรและสหกรณ์. <https://www.rid.go.th/index.php/th/>
- กรมธุรกิจพลังงาน. (2567). ประกาศกรมธุรกิจพลังงาน เรื่อง กำหนดลักษณะและคุณภาพของน้ำมันดีเซล พ.ศ. 2567. <http://elaw.doeb.go.th/>
- กระทรวงแรงงาน. (2554). การประกาศอัตราค่าจ้างขั้นต่ำ (ฉบับที่ 7), ประกาศคณะกรรมการค่าจ้าง เรื่อง อัตราค่าจ้างขั้นต่ำ (ฉบับที่ 7) และคำชี้แจง พร้อมตารางแสดงอัตราค่าจ้างขั้นต่ำตามมติคณะกรรมการค่าจ้างเมื่อวันที่ 17 ตุลาคม 2554. กระทรวงแรงงาน.
- จารุศิริพจ, ช. (2548). การศึกษาปฏิกิริยาทรานส์เอสเทอริฟิเคชัน (Transesterification) ของน้ำมันปาล์มที่ทิ้งจากการทอดอาหาร. <https://buuir.buu.ac.th/xmlui/handle/1234567890/1183>
- ทัศนณะคะจิตต์, ภ. (2562, September 10). European emission standards EURO 3 4 5. ระบบคลังความรู้ SciMath. <https://www.scimath.org/article-chemistry/item/10450-euro-3-4-5>