

NOTICE TO THE MARKET

Joinville, February 28, 2024 – Tupy S.A. ("Company", B3: TUPY3) hereby informs its shareholders and the market of the presentation of the case *Hydrogen combustion engine with highest efficiency* at the 11th International Engine Congress held in Baden-Baden, Germany.

The results presented are the outcome of a pioneering project in partnership with AVL List GmbH ("AVL") and Westport Fuel Systems Inc. ("Westport") for the development of a high-efficiency hydrogen combustion engine, an important solution in the pursuit of decarbonization for commercial vehicles.

Currently, hydrogen engine projects have focused on spark combustion technology, also known as the Otto thermodynamic cycle, which provides complete decarbonization of the engine but still faces challenges regarding performance and design.

This solution is scheduled to hit the market starting in 2025, and Tupy has already secured its role as a supplier to MAN Truck & Bus SE ("MAN") for its first hydrogen combustion truck.

For the past three years, Tupy has been dedicated to studying and understanding these challenges and anticipating customer demand. To this end, it invests in various projects. In hydrogen, the main focus is the partnership with AVL and Westport, aimed at exploring High-Pressure Direct Injection (HPDI). This diffuse combustion technology enables the extraction of benefits from a higher-energy fuel like hydrogen, enabling more efficient engines with greater power and lower fuel consumption.

Hydrogen combustion engines represent a zero-emission solution with lower cost and higher durability. In addition to economic issues and less environmental impact, this technology can leverage existing diesel engine infrastructure, making it highly competitive.

Main results presented

Efficiency and performance: the hydrogen-optimized version with HPDI technology achieved a thermal efficiency of 50.5%, exceeding the original diesel cycle engine, which was 47.6%. Furthermore, maximum power increased from 475 hp to 537 hp.

This efficiency increase shows not only the capacity to replace diesel engines with carbon-neutral solutions but also the possibility of future development of more powerful, cleaner engines with lower fuel consumption.

Technological maturity and availability: with the results of this project, HPDI technology reached a high level of maturity, with expectations for commercial introduction by 2030.

Also regarding this development, Tupy, known for its high-resistance alloys, plays a crucial role in overcoming the high mechanical and thermal loads associated with this technological innovation. With SinterCast AB ("SinterCast"), the Company has conducted various evaluations on hydrogen embrittlement to ensure high strength and durability.



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This initiative reinforces the commitment of the companies involved in innovation and the continuous pursuit of sustainable and competitive solutions.

The Company will keep the market informed of developments arising from this project in due course.

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