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A Working Paper on the Sliding Wear Performance of Cold-Sprayed Tribaloy-800 Coatings for Diesel Generator Exhaust Valves: An African Context from Kinshasa to Cairo

A, m, i, r, a, E, l, -, S, a, y, e, d, ,, K, a, r, i, m, A, b, d, e, l, -, M, a, l, e, k, ,, Y, o, u, s, s, e, f, F, a, h, m, y, ,, N, a, d, i, a, H, a, s, s, a, n

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| Abstract

This study addresses a current research gap in Engineering concerning Sliding Wear Performance of Tribaloy-800 Coatings Deposited by Cold Spray on Exhaust Valves of Diesel Generators in Kinshasa in Egypt. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A qualitative approach was used, drawing on recent literature and policy sources to frame the analysis. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Sliding Wear Performance of Tribaloy-800 Coatings Deposited by Cold Spray on Exhaust Valves of Diesel Generators in Kinshasa, Egypt, Africa, Engineering, working paper This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.
