

# EVALUATION OF THE INTEGRAL MANAGEMENT OF THE MANAGEMENT OF USED OIL IN VEHICULAR BOGOTA

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## ABSTRACT

In Colombia are generated each year approximately 1.2 million barrels of oil used<sup>1</sup> motor oil (vehicular), of which it has been estimated a potential recovery close to the 420,000 barrels. Approximately 540 BPD (barrels per day) are incorporated in the fuel market, particularly in furnaces and boilers of small- and medium-sized industries, such as workshops of casting, metal fabrication workshops, small chircas, textile mills, steel small, garment factories and in the services sector especially in the laundries, however<sup>23</sup> due to lack of knowledge of technical procedures for its adaptation, due to the absence of technical norms and specific to your industrial reuse, by the lack of consumption standards in boilers, furnaces and dryers and by the black market existing with these products, it is presumed that the managements given to waste oils and in general to this type of alternative energy, is inadequate.

This led to raise the need to perform a qualitative and quantitative analysis of the various activities involved in the commercial chain of this residue (generation, storage, mixing, collection, transportation and final disposal), throwing as a result the manual for the management of waste oils dictated by the environmental authorities in this case the Administrative Department of the Environment LADY<sup>4</sup> for Bogota and the Autonomous Regional Corporation of Cundinamarca CAR, with the purpose of implementing plans and programs aimed at achieving an appropriate handling, collection, transportation and use of this residue and by the generation of a formal market you to delete your character of hazardous waste, encouraging the participation of different actors for their recovery, Collection and treatment.

This involves the manual steps to take in the commercial chain for both hoarders, transporters and processors and/or processors, however the illegal market continues the largest share of this volume of used oil, which does not receive prior treatment in appropriate facilities and is used directly for combustion furnaces and boilers, in addition to presenting a great disorder of fuels without any control, generating another alternative of illegality as is the mixture of new and used oils for reuse by the fleet..

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<sup>1</sup> The regulatory definition of EPA for oil being used is the following: any oil that has been refined from crude oil or any synthetic oil that has been used and as a result of such use is contaminated by physical or chemical impurities.

<sup>2</sup> Report mining and energy planning unit /report waste oils Colombia

<sup>3</sup> Report Ocade Saniplan, waste oils Bogota, Cali and Barranquilla Environnement inc and Lupien Rosenberg et Associés Ltda. 1,999 -2.001.

<sup>4</sup> Currently District Secretariat of Environment.

*Keywords: Waste oils treatment, storage and handling of oil used in collection centers, processing enterprises of oil used in Bogotá, Tank reimbursement system, commercial chain of used oil.*

