CYBM Biodiesel

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The project wanted to find out the feasibility of using the extracted oil from cow‘s yellow bone marrow into something very useful in today’s society; biodiesel. The specific questions that this project wanted to find answers to are: (a) How much Cow’s Yellow Bone Marrow (CYBM) biodiesel is produced from a kilogram of a cow’s yellow bone marrow? (b) Does the quality of the CYBM biodiesel meet the quality specifications for a biodiesel in terms of visual inspection test, pH, specific gravity and clarity level; and are these comparable to the commercial diesel? (c) Are the carbon dioxide and carbon monoxide emissions of the CYBM lower than that of the commercial diesel? To answer these questions, the following procedures were done: First, cow bones were purchased from 3 different stores. Oil was extracted and dried. Then the process of converting oil into biodiesel recommended by www.journeytoforever.org was accurately followed. Three samples of biodiesel were produced. To test the quality of the biodiesel, several tests were conducted: a visual test, a pH test, a specific gravity test, a clarity test and carbon monoxide and carbon dioxide emission tests. All these quality tests used the commercial diesel as the control. The results of the tests showed that: (a) For every kilogram of cow bone, 120 ml of biodiesel is produced; (b) The quality of the CYBM has met the quality specifications of biodiesel in terms of the visual inspection test, pH, specific gravity and clarity level. It was found to be comparable to the commercial diesel; (c) The carbon dioxide and carbon monoxide emissions of the CYBM biodiesel were found to be lower than those of the commercial diesel.

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