

## **ABSTRACT**

*Solar is one of the fuels used by PT. KAI as fuel for locomotive engines, while UPT Balai Yasa Yogyakarta is an unit that serves as a workshop for railroad locomotives. As long as the locomotive are in the treatment, there has been soil contamination by spills from diesel fuel and/or oil at UPT Balai Yasa Yogyakarta. This study are intend to isolate bacteria on solar polluted soil and/or oil at UPT Balai Yasa Yogyakarta and test the ability of these bacteria to degrade hydrocarbons compounds. This research was carried out by conducting soil sampling at the location of polluted land at UPT Balai Yasa Yogyakarta, then perform the identification test of bacteria by morphologically test and biochemical reactions test and the last step is to testing the ability of bacteria to integrate hydrocarbons with the halozone method. The results showed that several bacteria found in the sample soil at UPT Balai Yasa Yogyakarta is most likely to be included in the genus *Pseudomonas* spp. And these bacteria can degrade certain hydrocarbon compounds, it be evidence by the appearance of halozone in bacterial colonies..*

**Keywords :** *Diesel fuel, polluted land, bacteria, halozone, UPT Balai Yasa Yogyakarta*