

Oil degradation characteristics of microorganisms in oil pollution soil

Masaharu Tasaki[1]; kazuo okamura[2]

[1] none; [2] Shimz Institute

Bio-remediation is the very effective method for purification of the oil pollution soil, but it is impossible that a microorganisms completely utilize a all kinds of oil.

We know that it is difficult to clean up the heavy oil such as C fuel oil by microorganisms.

However, there is few reports about relations of a kind of oils and biodegradation ability

We carried out the examination of such a relationship using several kinds oils, and studied the behavior of microorganisms in the soil.

As a result of examination, the carbon number of the oil which could disintegrate enough was about 20.

This carbon number composition is equivalent to fuel oil A

Furthermore, there is the microbial community universally which participated in oil degradation in the general soil.