

A study of indicators in mine dump truck driving operation

Tominaga, Y.¹, Takada, H.², and Matsuura, Y.²

¹Department of Systems Integration, Graduate School of Engineering, Yokohama National University, Japan

²Division of Systems Research, Faculty of Engineering, Yokohama National University, Japan

Corresponding Author: Tominaga, Y, Department of Systems Integration, Graduate School of Engineering, Yokohama National University, 79-5 Tokiwadai, Hodogaya-ku, Yokohama-si, Kanagawa 240-8501, Japan,
E-mail : tominaga-yu-nb@ynu.ac.jp

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Abstract: In recent years, the demand for mining resources necessary to the economic development of people's lives and the nation has increased. Has also expanded sales of construction machinery for the attendant to it, and mining mineral resources. Against it, the fuel cost of mining machinery also went up by international oil price jump, and it became a cause which swells the necessary expenses of a mining enterprise. And it is a factor which worsens a mining operator's profitability. Especially it raises the problem of consuming much fuel, in the case of a conveyance run of a dump truck. Therefore, the loading platform capacity of the dump truck itself is increased, and the improvement of which raise travelling performances, such as the acceleration and deceleration performance, are called for. Operator training is carried out about a fuel efficient operating method, and the measure of energy saving operation is also taken. Three kinds of operations, such as loading, conveyance, and shipping, exist in work of a dump truck. Since the dump truck engaged especially in materials handling operation has long migration length, compared with other construction machinery, then most many number of operation is needed.

Eventually, we will increase productivity to detect the operation of dump truck, abuse driving, and suggestions on how the optimal operation depending on the situation and operation of the runway.