

Revision of Evaluation Criteria to Check Deterioration in Lubricating Grease Used on Trains

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The maintenance of running gears is indispensable to maintain the safety operation of railway vehicles. Therefore, in the case of axle boxes or traction motors, lubricants for bearings are replaced periodically to keep their functional capability. Lubricant deterioration depends on its service conditions, so some criteria was necessary for evaluating deterioration in the grease. Based on the correlation between the analysis data and the deteriorating process of lubricating grease on board, judgment criteria called 'KANRI KIJUNCHI' were set in 1980s and have been used widely until today as a guide for the replacement of grease. This time, we reset the criteria based on the current running conditions.