Effects of Segment-structured Carbon Film on Fretting Wear Prevention of Axle Journal Bearings			
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In an axle journal bearing of railway vehicles, it is necessary to mitigate the fretting wear that occurs between			
the contact surfaces of the inn	er ring and the backing rin	ng. In this work, we inve	estigated the preventive effect of
segment-structured carbon fil	m on the fretting wear th	rough rotation tests of	full-scale railway axle bearings
with the backing ring side fa	ce coated with the film.	As a result, we have for	and that the film is effective in
suppressing the fretting wear	generated on the contact	surfaces between the inr	ner ring and the backing ring of
the axle bearings.			