Supplemental Document:

Effect of nitrogen content on structure and properties of MoN_x coatings

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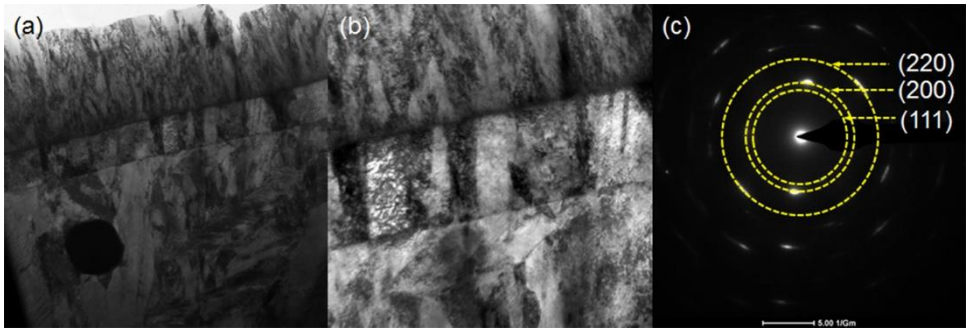

Fig.1 High magnification (a) and (b) bright field TEM micrographs of MoN coating OEM controlled at 60% and the diffraction pattern of a selected area.

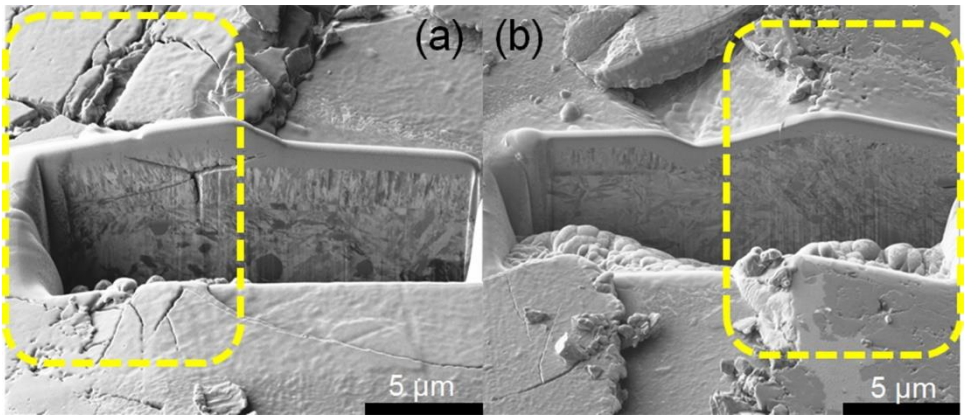

Fig. 2 Cross-sectional focused ion beam images of MoN coating OEM controlled at 60% (a) and OEM controlled at 80% (b) after scratch test (yellow areas are the scratches)

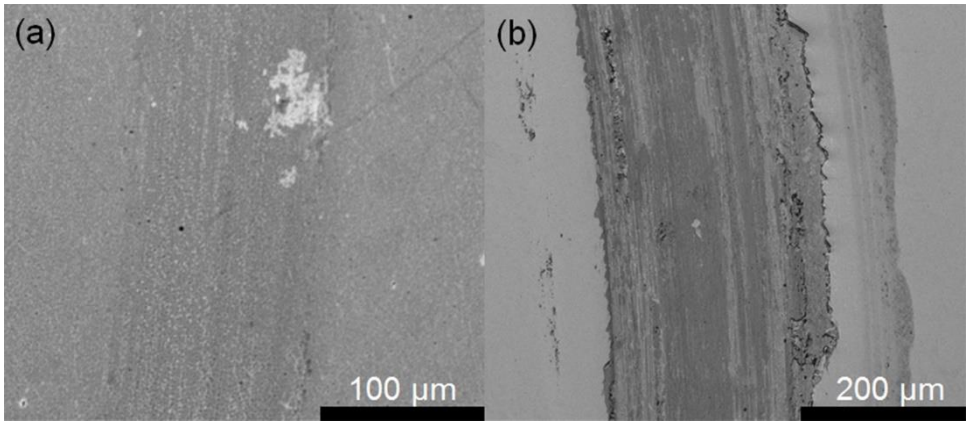

Fig. 3 SEM images of wear test of MoN coating OEM controlled at 60% (a) and OEM controlled at 80% (b)