Electronic Supplementary Information

Mechanical synthesis of chemically bonded phosphorus-graphene hybrid as high-temperature lubricating oil additive


Fig. S1. (A) Friction coefficient and (B) Wear volumes of the discs lubricated by PAG and PAG containing different contents of P-Gr (3:7) at 100 °C (SRV load, 100 N; duration, 30 min; stroke, 1 mm; frequency, 25 Hz).
Fig. S2. (A) Friction coefficient and (B) Wear volumes of the discs lubricated by PAG and PAG containing different contents of P-Gr (1:1) at 100 °C (SRV load, 100 N; duration, 30 min; stroke, 1 mm; frequency, 25 Hz).

Fig. S3. (A) Friction coefficient and (B) Wear volumes of the discs lubricated by PAG and PAG containing different contents of P-Gr (7:3) at 100 °C (SRV load, 100 N; duration, 30 min; stroke, 1 mm; frequency, 25 Hz).