Dear Editor:

We are sending a manuscript entitled “Performance analysis and optimization of a combined cooling and power system using low boiling point working fluid driven by engine waste heat”, which we should like to submit for publication in Energy Conversion and Management. We investigate a combined cooling and power system driven by exhaust gas and jacket water from an internal combustion engine. The mathematical model of the system is established to simulate the cycles under steady-state conditions. A parametric analysis of seven key parameters is conducted to examine their effects on the thermodynamic and exergoeconomic performance of the system. An optimization is conducted by genetic algorithm to obtain better system performance.

We declare that the manuscript has not been previously published, is not currently submitted for review to any other journal and will not be submitted elsewhere before one decision is made. Its publication is approved by all authors. If accepted, it will not be published elsewhere in the same form, in English or in any other language.

We appreciate your consideration of our manuscript, and we look forward to receiving comments from the reviewers.

Sincerely,

Jiangfeng Wang (on behalf of the authors’ team)

Institute of Turbomachinery

Cover letter

Shaanxi Engineering Laboratory of Turbomachinery and Power Equipment

State Key Laboratory of Multiphase Flow in Power Engineering

School of Energy and Power Engineering

Xi’an Jiaotong University, Xi’an, China