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ABSTRACT

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INTRODUCTION

The [Head 1] style is a Level 1 heading. It has been applied to the heading above, “INTRODUCTION”. [Normal] style text and other levels of headings [Head 2], [Head 3], and [Head 4] should be used to structure the content within any given section.

body

The body of the paper should include detailed and structured description of the work performed, including (as appropriate) methodology, assumptions, hardware, observations, analysis, and a comparison of results with prior work. The information presented must be self-contained (in the sense that the reader is not assumed to have read prior papers) and provide an appropriate level of detail for the intended audience. Define all terms at first usage and apply them consistently.

The body section is not entitled *Body*. Rather it comprises multiple sections and subsections titled using topical headings in a four-level structure. Template styles [Head 1] through [Head 4] are used to tag and format titles of the different levels. No specific heading titles are mandated, but common examples include Methods, Results, and Discussion. Figures, tables, and equations fall under the body section. Found in this template are examples of a figure, a table, and equations (which must be kept to 3.5” wide).

Head 2 Example

A [Head 2] style tag applied to the heading above is Times New Roman, 12 point, initial caps, bold, italic. The [Normal] style tag should be used for paragraph text which is Times New Roman, 10 point, regular.

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Table 1. This is an example of a table and table title. For tables, the recommended size is 3.5 inches. Table titles are Times New Roman, 10 point. The Normal Table Text style tag should be applied to the table text.

|  |  |
| --- | --- |
| Displaced volume | 1966 cm3 |
| Stroke | 154 mm |
| Bore | 127.5 mm |
| Connecting rod | 255 mm |
| Compression ratio | 14.3:1 |
| Number of valves | 4 |



Figure 1. Example of a figure and figure caption.

The sample figure has been sized to 3.5 inches wide, which is the recommended size. Captions for figures are Times New Roman, 10 point.

This is an example of an ordered list. When creating this type of list do not enclose number or letter in parenthesis i.e. (1) or (a). Instead number as shown in this example.

Shown are examples of equations. All equations wider than 3.5 inches must be wrapped to the next line as shown in these equations.

(1)



(2)

Summary/Conclusions

If the Summary/Conclusions section is not wanted, delete this heading and text.

References

1. SAE uses the [Chicago Manual of Style](http://www.chicagomanualofstyle.org/home.html) in formatting references. In the text of the paper the citations are numerically identified using square brackets [1]. Up to four authors should be listed; more than four, et al. should be used after the fourth author is listed. Refer to the SAE Technical Paper Style Guide for formatting of different types of references. Apply the List-Ordered-Numeric style tag to format references. Below are some examples.
2. Guo, Q. and Liu, B., "Simulation and Physical Measurement of Seamless Passenger Airbag Door Deployment," SAE Technical Paper 2012-01-0082, 2012, doi:10.4271/2012-01-0082.
3. Kunkel, S., Zimmer, T., and Wachtmeister, G., "Friction Analysis of Oil Control Rings during Running-In," SAE Technical Paper 2011-01-2428, 2012, doi:10.4271/2011-01-2428.
4. Morgan, R., Scullion, P., Nix, L., Kan, C. et al., "Injury Risk Investigation of the Small, Rear-seat Occupant in Side Impact," SAE Technical Paper 2012-01-0092, 2012, doi:10.4271/2012-01-0092.
5. Kimura, Y. and Murakami, M., "Analysis of Piston Friction - Effects of Cylinder Bore Temperature Distribution and Oil Temperature," *SAE Int. J. Fuels Lubr.* 5(1):1-6, 2012, doi:10.4271/2011-01-1746.
6. SAE International Surface Vehicle Recommended Practice, “Laboratory Measurement of the Composite Vibration Damping Properties of Material on a Supporting Steel Bar,” SAE Standard J1637, Rev. Aug. 2007.

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Acknowledgments

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DefinitionS/AbbreviationS

|  |  |
| --- | --- |
| SA | sample abbreviations |
| UBT | Use borderless table ≤ 3.5 inches wide. |
| test vector | Don’t capitalize term unless an acronym or proper noun. |

APPENDIX