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Displaced volume	1966 cc
Stroke	154 mm
Bore	127.5 mm
Connecting rod	255 mm
Compression ratio	14.3:1
Number of valves	4
Exhaust valve open	34° BBDC @ 0.15 mm lift
Exhaust valve closed	6° BTDC @ 0.15 mm lift
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Presentation	Alger, T., "SwRI's HEDGE™ Concept – High-Efficiency Dilute Gasoline Engines for Automotive, Medium Duty, and Off-Road Applications," Panel Presentation at SAE International 2009 Powertrains, Fuels, and Lubricants Meeting, November 2009.
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Magazine articles	Veen, J., Pan, J., and Saha, P., "Standardized Test Procedures for Small Reverberation Room," <i>Sound and Vibration</i> , December 2005, 18-20.
Standards	SAE International Surface Vehicle Recommended Practice, "Laboratory Measurement of the Composite Vibration Damping Properties of Material on a Supporting Steel Bar," SAE Standard J1637, Revised August 2007.
Book	Richards, P., <i>Automotive Fuels Reference Book</i> , 3rd ed. (Warrendale: SAE International, 2014), 69-73, doi:10.4271/R-297. NOTE: If no DOI is available insert ISBN in its place.
Personal communication	Smith, R., General Motors Corporation, personal communication, February 2007.
Patent	Wilkinson, J., Nonlinear resonant circuit devices. US Patent 3,624,124, July 16, 1990.
Internet reference	SAE International, "UNS on the Web; Metals and Alloys in the Unified Numbering System," SAE International, accessed August 2009, http://www.sae.org/uns .
Thesis/Dissertation	Mathuria, P., "Transfer Path Analysis of Diesel Engine Noise Using Statistical Energy Analysis," PhD thesis, Indian Institute of Technology, 2000.
Software	The Interactive Tester (Version 4.0), computer software, Psytek Services, Westminster, CA, 1993.
CD-ROM	Acoustics Testing Laboratory of the NASA Glenn Research Center. (<i>Distributor</i>), <i>Auditory Demonstrations II: Challenges in Speech Communication and Music Listening</i> , CD-ROM available from NASA Glenn Research Center Acoustical Testing Laboratory 04 from http://acousticaltest.grc.nasa.gov , December 2003.
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MEMORANDUM

DATE: April 9, 2018
TO: Andrew R Kemper, Devon Lee Albert, Val Heath
FROM: Virginia Tech Institutional Review Board (FWA00000572, expires January 29, 2021)
PROTOCOL TITLE: Volunteer Sled Testing for Automotive Safety
IRB NUMBER: 17-1008

Effective April 9, 2018, the Virginia Tech Institutional Review Board (IRB), at a convened meeting, approved the New Application request for the above-mentioned research protocol.

This approval provides permission to begin the human subject activities outlined in the IRB-approved protocol and supporting documents.

Plans to deviate from the approved protocol and/or supporting documents must be submitted to the IRB as an amendment request and approved by the IRB prior to the implementation of any changes, regardless of how minor, except where necessary to eliminate apparent immediate hazards to the subjects. Report within 5 business days to the IRB any injuries or other unanticipated or adverse events involving risks or harms to human research subjects or others.

All investigators (listed above) are required to comply with the researcher requirements outlined at: <http://www.irb.vt.edu/pages/responsibilities.htm>

(Please review responsibilities before the commencement of your research.)

PROTOCOL INFORMATION:

Approved As: **Full Review**
Protocol Approval Date: **April 9, 2018**
Protocol Expiration Date: **April 8, 2019**
Continuing Review Due Date*: **March 25, 2019**

*Date a Continuing Review application is due to the IRB office if human subject activities covered under this protocol, including data analysis, are to continue beyond the Protocol Expiration Date.

FEDERALLY FUNDED RESEARCH REQUIREMENTS:

Per federal regulations, 45 CFR 46.103(f), the IRB is required to compare all federally funded grant proposals/work statements to the IRB protocol(s) which cover the human research activities included in the proposal / work statement before funds are released. Note that this requirement does not apply to Exempt and Interim IRB protocols, or grants for which VT is not the primary awardee.

The table on the following page indicates whether grant proposals are related to this IRB protocol, and which of the listed proposals, if any, have been compared to this IRB protocol, if required.

Date*	OSP Number	Sponsor	Grant Comparison Conducted?

* Date this proposal number was compared, assessed as not requiring comparison, or comparison information was revised.

If this IRB protocol is to cover any other grant proposals, please contact the IRB office (irbadmin@vt.edu) immediately.

MEMORANDUM

DATE: February 9, 2019
TO: Andrew R Kemper, Devon Lee Albert, Hana Chan, Samuel Thomas Bianco
FROM: Virginia Tech Institutional Review Board (FWA00000572, expires January 29, 2021)
PROTOCOL TITLE: Volunteer Sled Testing for Automotive Safety
IRB NUMBER: 17-1008

Effective February 9, 2019, the Virginia Tech Institution Review Board (IRB) approved the Amendment request for the above-mentioned research protocol.

This approval provides permission to begin the human subject activities outlined in the IRB-approved protocol and supporting documents.

Plans to deviate from the approved protocol and/or supporting documents must be submitted to the IRB as an amendment request and approved by the IRB prior to the implementation of any changes, regardless of how minor, except where necessary to eliminate apparent immediate hazards to the subjects. Report within 5 business days to the IRB any injuries or other unanticipated or adverse events involving risks or harms to human research subjects or others.

All investigators (listed above) are required to comply with the researcher requirements outlined at:

<https://secure.research.vt.edu/external/irb/responsibilities.htm>

(Please review responsibilities before beginning your research.)

PROTOCOL INFORMATION:

Approved As: **Full Review**
Protocol Approval Date: **April 9, 2018**
Protocol Expiration Date: **April 8, 2019**
Continuing Review Due Date*: **March 25, 2019**

*Date a Continuing Review application is due to the IRB office if human subject activities covered under this protocol, including data analysis, are to continue beyond the Protocol Expiration Date.

ASSOCIATED FUNDING:

The table on the following page indicates whether grant proposals are related to this IRB protocol, and which of the listed proposals, if any, have been compared to this IRB protocol, if required.

IRB SPECIAL INSTRUCTIONS:

This Amendment, submitted 2/6/2019, revises the protocol to include a Pilot Test. Changes were made to the Research Protocol and new documents were submitted for recruitment, consent, screening and an End of Wellness questionnaire. Changes made to list of study personnel to remove Val Heath and add Hana Chan and Samuel Bianco.

Date*	OSP Number	Sponsor	Grant Comparison Conducted?
07/18/2018	PMUZJK7Z	Wake Forest University Health Sciences (Title: GHBMC Center of Expertise in Full Body Models - Phase III)	Not required (Not federally funded)

* Date this proposal number was compared, assessed as not requiring comparison, or comparison information was revised.

If this IRB protocol is to cover any other grant proposals, please contact the HRPP office (irb@vt.edu) immediately.