



SURFACE VEHICLE INFORMATION REPORT

SAE

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Location of Atomizer of Ether Systems for Diesel Engines

RATIONALE

The standard covers technology, which is mature and not likely to change in the foreseeable future. There is no support within Con Ag to revise this document, but some users want to maintain it as stabilized for limited use.

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Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format.

1. **Scope**—This SAE Information Report recommends the requirements for the location of ether atomizers.
2. **References**—There are no referenced publications specified herein.
3. **Rationale**—Ether systems are used on diesel engines for cold weather starting below 5 °C. The location of the atomizer in the air intake system is of vital concern. Most air intake systems provide a tapped hole somewhere in the air intake system to accommodate an atomizer, however, some engines have the hole in the intake manifold where it is almost impossible to provide even distribution of ether to all cylinders.
4. **Recommendation**—The atomizer should be located above the intake manifold as close as possible to the inlet of the manifold preferably in the air horn leading to the intake manifold. On turbocharged diesels a desirable location is between the turbo and intake manifold. On air to air cooling systems the atomizer should be located after the air leaves the cooling radiator as close to the air intake manifold as possible. (See Figure 1.)

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