

	SURFACE VEHICLE RECOMMENDED PRACTICE		J1176 JUN2012
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External Leakage Classifications for Hydraulic Systems			

RATIONALE

This Recommended Practice covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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

1. **Scope**—This SAE Recommended Practice establishes a uniform guide for defining the degree of external leakage on a hydraulic system. The leakage classifications include dusty and dust-free conditions. The choice of classification is intended to be by visual means rather than with the aid of instruments. It describes the leakage state at the observed time, considering that the state may change over a period of time.
 - 1.1 **Purpose**—Establish a uniform guide for defining the degree of external leakage on a hydraulic system. The leakage classifications include dusty and dust-free conditions. The choice of classification is intended to be by visual means rather than with the aid of instruments. It describes the leakage state at the observed time, considering that the state may change over a period of time.
2. **References**—There are no referenced publications specified herein.
3. **Dust-free Classifications**
 - 3.1 **Class 0**—No indication of moisture.
 - 3.2 **Class 1**—Nonrecurring fluid.
 - 3.3 **Class 2**—Recurring fluid that does not result in the formation of a droplet.
 - 3.4 **Class 3**—Recurring fluid that results in the formation of a nonfalling droplet.
 - 3.5 **Class 4**—Recurring fluid where a droplet forms and falls.
 - 3.6 **Class 5**—Recurring fluid where the frequency of droplets makes a measurable stream.
4. **Dusty Classifications**
 - 4.1 **Class 0D**—No indications of moisture.