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SURFACE VEHICLE RECOMMENDED PRACTICE

SAE J1276

REV. MAR86

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Submitted for recognition as an American National Standard

STANDARDIZED FLUID FOR HYDRAULIC COMPONENT TESTS

1. ***Scope—***This Recommended Practice establishes a uniform specification for reference usage in specific documents, such as fluid power component test procedures, where a fluid designation is required.

1.1 **Purpose—**Establish a uniform specification for reference usage in specific documents, such as fluid power component test procedures, where a fluid designation is required.

2. ***References***

2.1 **Applicable Publications—**The following publications form a part of the specification to the extent specified herein. Unless otherwise indicated the lastest revision of SAE publications shall apply.

2.1.1 ASTM PUBLICATIONS—Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 2270-1968—American Society for Testing and Materials Standard Method for Calculating Viscosity Index from Kinematic Viscosity

ASTM D 445-1965—American Society for Testing and Materials Standard Method of Test for Viscosity of Transparent and Opaque Liquids

2.1.2 ISO PUBLICATION—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ISO 3348-1975 (E)—Industrial Liquid Lubricants—ISO Viscosity Classification

3. ***Fluid***

3.1 **Type—**A newtonian viscosity petroleum base is to be used, which does not allow for polymeric materials as thickeners or viscosity index improvers.

3.2 **Viscosity—**ISO viscosity grade ISOVG32 per Ref. 3.1 as measured per Ref. 3.2 with viscosity index (V.I.) of 95 ± 10 as determined per Ref. 3.3.

3.2.1 VISCOSITY RANGE—Per paragraph 2.2, it is 28.8–35.2 cSt (mm^2/s) or 135–164 SUS at 40 °C (104 °F) and 4.8–5.8 cSt (mm^2/s) or 41.9–44.9 SUS at 100 °C (212 °F).

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4. Notes

4.1 Marginal Indicia—The change bar (l) located in the left margin is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. An (R) symbol to the left of the document title indicates a complete revision of the report.

PREPARED BY THE SAE HYDRAULIC FLUID POWER SYSTEMS AND COMPONENTS SUBCOMMITTEE 4 OF THE SAE OFF-ROAD MACHINERY TECHNICAL COMMITTEE