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Superseding J1464 APR1988

**Identification Terminology of Loaders/Tractors with
Forks and Rough Terrain Forklifts**

Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format. Scope is Section 1, Purpose 1.1 and References Section 2.

1. Scope—This SAE Recommended Practice defines machines equipped with forks for material handling, which are intended for use on unimproved or disturbed terrain. (Reference J1116, Categories 1, 2 or 6.)

1.1 Purpose—To identify types of machines, which use forks as working tools, while being used on unimproved surfaces. The machines are grouped as follows: loaders/tractors with forks and rough terrain forklifts. These groupings are used in identifying the organization responsible for applicable standards.

2. References

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

2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J818—Rated Operating Load for Loaders

SAE J1116—Categories of Off-Road Work Machines

2.1.2 ASME PUBLICATIONS—Available from ASME, 345 East 47 Street, New York, NY 10017-2330.

ASME B56

ASME B56.6

3. Definitions

3.1 Loader/Tractor with Forks—Machine designed primarily for earthmoving, which has forks attached to or in place of the bucket or blade.

3.2 Rough Terrain Forklift—Machine designed primarily to lift and carry materials, which has a vertical mast and/or variable reach boom to carry the forks.

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4. Identification

4.1 Loader/Tractor with Forks

- 4.1.1 Wheel Loader/Tractor with Fork Attachment (see Figure 1)
- 4.1.2 Articulated Loader with Fork Attachment (see Figure 2)
- 4.1.3 Backhoe Loader with Fork Attachment (see Figure 3)
- 4.1.4 Skid Steer Loader with Fork Attachment (see Figure 4)
- 4.1.5 Forks for Quick Coupler Attachment (see Figure 5)
- 4.1.6 Forks Over Bucket (see Figure 6)
- 4.1.7 Tractor with Three Point Hitch Mounted Forks (see Figure 7)

4.2 Rough Terrain Forklift

- 4.2.1 Rear Steer, Mast with Forks (see Figure 8)
- 4.2.2 Parallelogram Boom with or without Mast (see Figure 9)
- 4.2.3 Variable Reach with or without Mast (see Figure 10)

5. Responsibility for Development of Standards

- 5.1 **Loaders/Tractors with Forks**—Standards development is the responsibility of SAE and Con Ag Council. Load capacity ratings are determined by the same methods as for loaders, Reference SAE J818, except that the load center is established with the forks level, at a specified height, and 600 mm (24 in) ahead of the vertical front face of the forks. Machines that have a load rating of 13600 kg (30000 lb) and over shall have an additional rating at 1200 mm (48 in) ahead of the vertical front face of the forks.
- 5.2 **Rough Terrain Forklifts**—Standards development is the responsibility of ASME B56. Load capacity ratings are determined by the procedure specified in ASME B56.6.

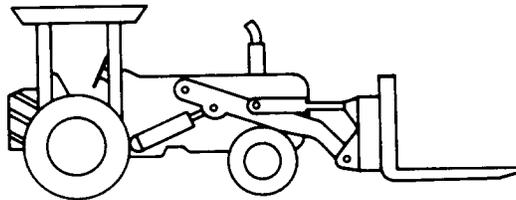


FIGURE 1—

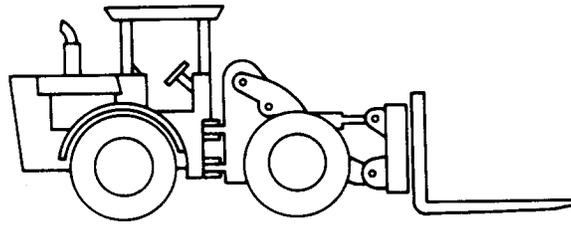


FIGURE 2—

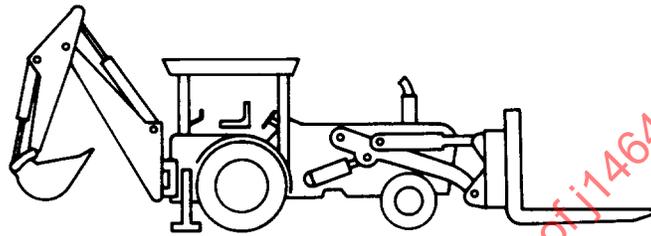


FIGURE 3—

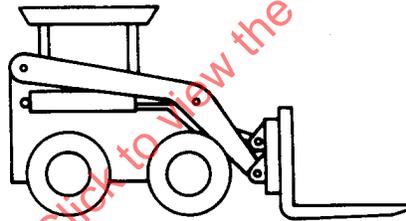


FIGURE 4—

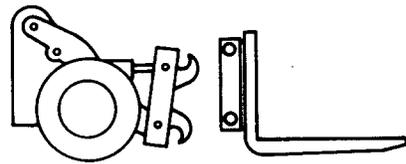


FIGURE 5—

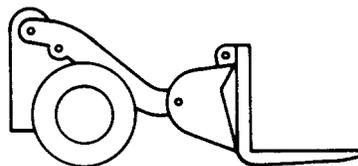


FIGURE 6—

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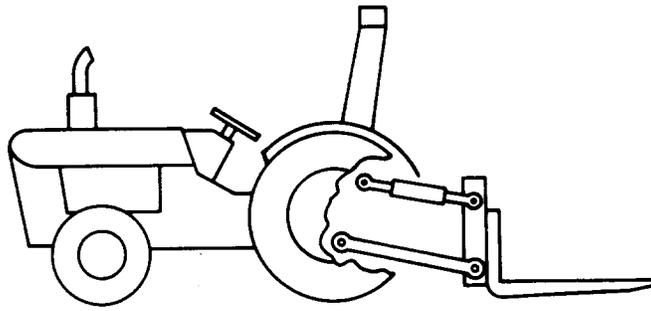


FIGURE 7—

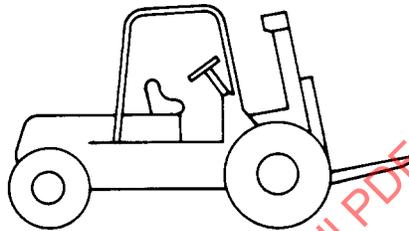


FIGURE 8—

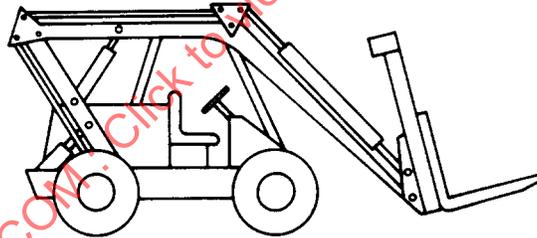


FIGURE 9—

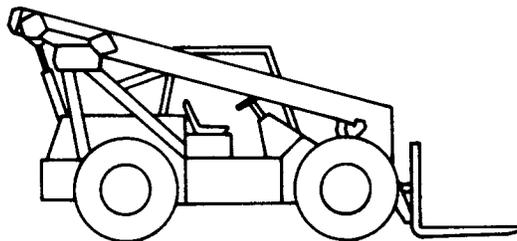


FIGURE 10—

PREPARED BY THE SAE MACHINE TECHNICAL COMMITTEE SC1—
LOADERS, CRAWLERS, SCRAPERS, AND MOUNTED ATTACHMENTS