

RATED OPERATING LOAD FOR LOADERS

Foreword—This Document has also changed to comply with the new SAE Technical Standards Board format.

1. **Scope**—This SAE Standard applies to wheel and crawler loaders taking only hydraulic lift capacity and tipping capacity into consideration.

It is recognized that specific operating conditions may allow larger, or require smaller loads than the rated operating load. Some conditions could require more careful or restricted operation with the rated operating load. This standard is not to be construed as setting up test procedures or conditions.

- 1.1 **Purpose**—This SAE Standard establishes the definition of a normal all day rated operating load for loaders as defined in SAE J1057.

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

SAE J732 FEB80—Specification Definitions - Loaders

SAE J1057 JUN81—Identification Terminology of Earthmoving Machines

3. **Definition**—The Rated Operating Load, SAE rating, in kilograms (pounds), will not exceed 50% of the tipping capacity, SAE rating for wheel loaders¹, or 35% of the tipping capacity, SAE rating for crawler loaders¹. Hydraulic lift capacity of the machine for all lift arm positions should be no less than the rated operating load.

4. **Operating Conditions**

- 4.1 Bucket attachment of specified size and type.

- 4.2 Maximum travel speed with bucket at SAE carry position¹.

Crawler loaders: 6 km/h (3.7 mph)

Wheel loaders: 6 km/h (3.7 mph)

1. As defined in SAE J732.

4.3 Operating Surface

4.3.1 WHEEL LOADERS—Shall be hard, moderately smooth and level.

4.3.2 CRAWLER LOADERS—General operating conditions are such that crawler loaders are not operating on hard, moderately smooth, level surfaces. For this reason, the rating on crawler loaders is set at the lower figure of 35%.

5. Notes

5.1 **Marginal Indicia**—The change bar (I) 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 ORMTC/SUBCOMMITTEE 9—LOADERS & MOUNTED ATTACHMENTS

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