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**SURFACE  
VEHICLE  
STANDARD**

**SAE**

**J818 JAN2013**

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Superseding J818 APR2007

Rated Operating Load for Loaders

RATIONALE

This document is being cancelled and superseded by ISO 14397-1.

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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, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

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 loaders<sup>1</sup>, or 35% of the tipping capacity, SAE rating for crawler loaders<sup>1</sup>. 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.

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1. As defined in SAE J732.

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