

Issued 1991-02
Reaffirmed 2002-10

Superseding J1197 FEB1991

**Rated Operating Load for Loaders Equipped with Log
or Material Forks without Vertical Mast**

Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format. Definitions were changed to Section 3. All other section numbers have changed accordingly. J1057 was superseded by SAE J/ISO 6165.

1. **Scope**—This SAE Recommended Practice applies to wheel and crawler loaders when equipped with log or material handling forks without vertical masts, taking only hydraulic lift capacity and operating stability into consideration.

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

- 1.1 **Purpose**—This document establishes the definition of a normal all day rated operating load for loaders as defined in SAE J/ISO 6165.

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—Specification Definitions—Loaders

SAE J/ISO 6165—Identification Terminology of Earthmoving Machines

3. **Definition**

- 3.1 **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 is to be no less than the rated operating load.

1. As defined in SAE J732.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright ©2002 Society of Automotive Engineers, Inc.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER:

Tel: 877-606-7323 (inside USA and Canada)
Tel: 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: custsvc@sae.org
<http://www.sae.org>

SAE WEB ADDRESS:

4. Operating Conditions

- 4.1 Fork attachment of specified size and type.
- 4.2 Load surface of the fork in horizontal position, and clamp closed when so equipped.
- 4.3 Center of gravity of load defined as a point on the longitudinal centerline of the machine 50% of the distance from the tip of the fork to the most rearward point of the load opening.
- 4.4 Operating surface shall be hard, moderately smooth, and level.
- 4.5 Maximum travel speed shall be 6 km/h (3.7 mph).

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

SAENORM.COM : Click to view the full PDF of J1197_200210