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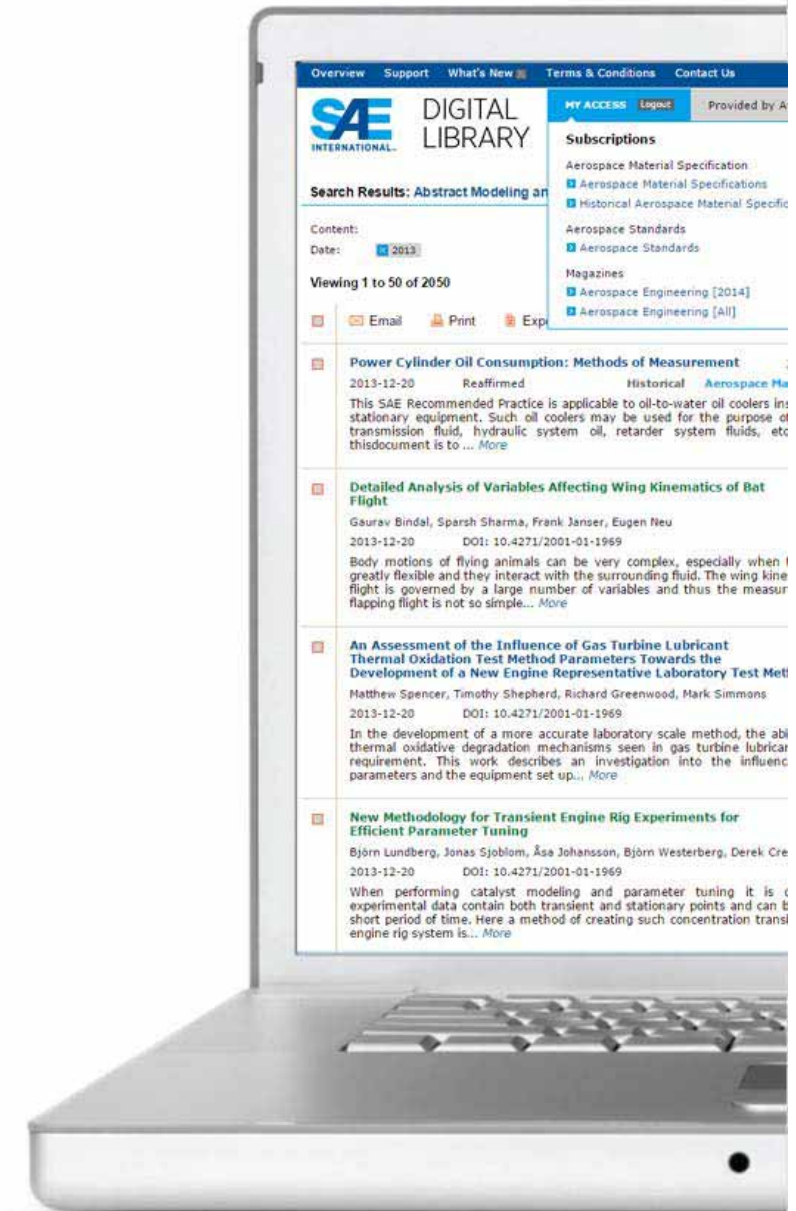
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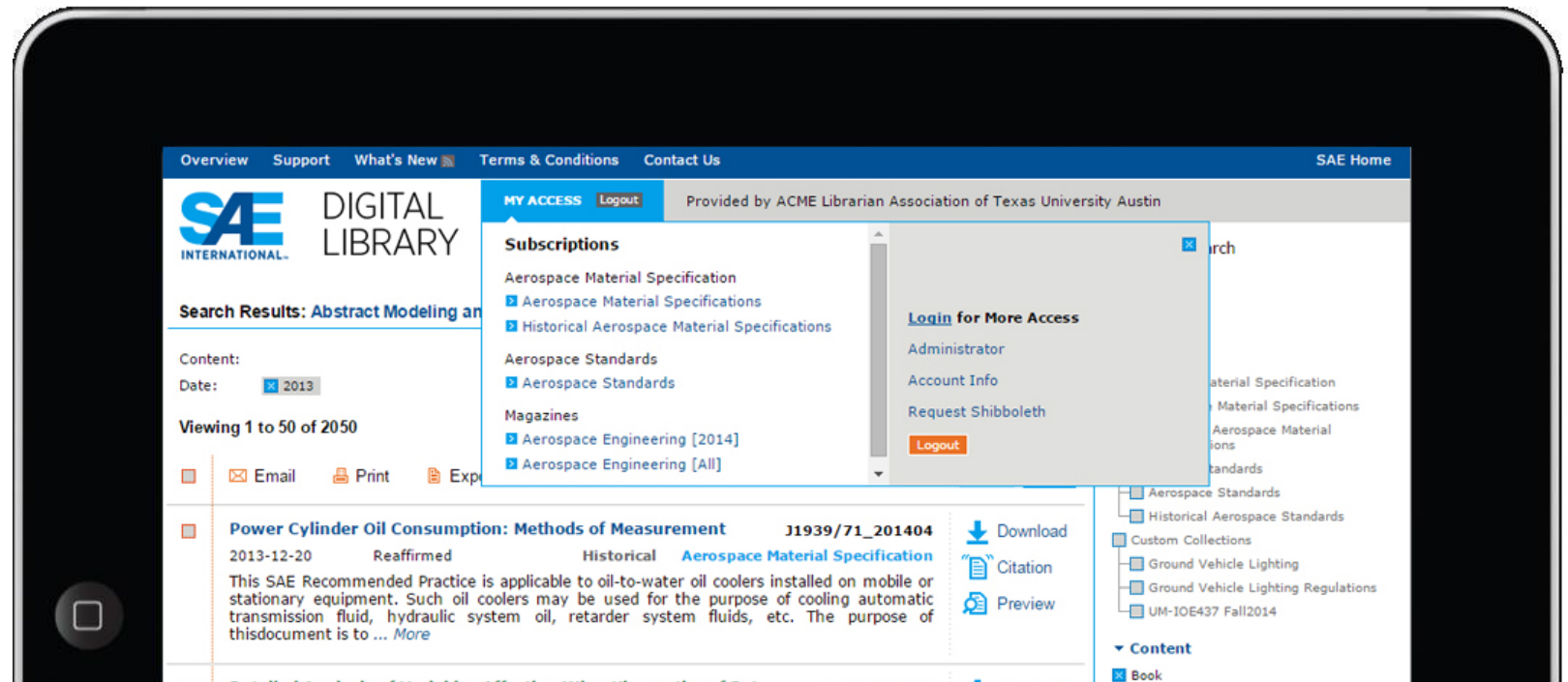
一新された内容:

- ダウンロードをしなくても原文を閲覧可能。
- 原文情報のアクセスがより簡単に！
- ページに検索バーとアドバンス検索が可能。
- 検索結果がより鮮明に！
- 関連文献や履歴へのアクセスがより簡単に！



メリット:

- 索引からの検索がより簡単に。
- タブレット端末など利用機器がより豊富に。
- 新しい設計による拡張機能が潤沢となった。



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注意情報によるログイン・エラー回避(ログイン方式の場合)

The screenshot shows the SAE Digital Library login interface. At the top, there is a navigation bar with links for Overview, Support, What's New, Terms & Conditions, and Contact Us, along with a 'SAE Home' link. The main header includes the SAE International logo and the text 'DIGITAL LIBRARY'. A 'MY ACCESS' section contains a 'Logout' button and the text 'Provided by ACME Librarian Association of Texas University Austin'. Below this, there is a 'Return to Digital Library' link and a prompt to 'Select a Login Type or Register for a Free Trial'. Two login options are presented: 'Account Login' (selected) and 'Institutional / Shibboleth Login'. The 'Account Login' form includes fields for 'User Id:' and 'Password:', followed by a 'Login' button. A red error message states: 'Your User ID and Password combination were incorrect. Please try again.' Below the form is a 'Need Support?' link. To the right, a blue notification box titled 'No Additional Access Granted' contains the message: 'Your login was successful, but currently there are no active subscriptions with your University.' It also includes links for 'Return to the Digital Library' and 'Contact Support'. At the bottom of the page, there is a 'Don't have access?' section with a link to 'purchase the document:' and a table listing document details. The footer contains flags for various countries, a copyright notice for SAE International (2014), and a list of links: Advertise, About, Contact Us, Press, and Legal & Policies.

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Account Login Institutional / Shibboleth Login

User Id:

Password: Login

Your User ID and Password combination were incorrect. Please try again.

Need Support?

No Additional Access Granted

Your login was successful, but currently there are no active subscriptions with your University.

Return to the Digital Library
Contact Support

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Power Cylinder Oil Consumption: Methods of Measurement	12796_200702
2013-12-20	Reaffirmed
Historical	Aerospace Material Specification

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よりわかりやすくなった管理情報。

This screenshot shows the 'MY ACCESS' page on the SAE International website. A yellow callout bubble labeled '契約内容の一覧' (List of contract contents) points to the 'Subscriptions' section, which lists categories like 'Aerospace Material Specification', 'Aerospace Standards', and 'Custom Collections'. Another yellow callout bubble labeled '管理者向けツール' (Tools for administrators) points to the 'Administrator' section, which includes options like 'Request Shibboleth' and a 'Logout' button. The main content area displays search results for 'oil', with a highlighted entry: 'Observation of Transient Oil Consumption with In-Cylinder Variables' by Susumu Ariga, dated 1996-10-01, with DOI: 10.4271/961910. The entry is identified as a 'Technical Paper' and includes a brief abstract about oil consumption mechanisms.

This screenshot shows the search results page on the SAE International website. A yellow callout bubble labeled '追加情報の通知' (Notification of additional information) points to the 'My Access' filter option in the search filters. The search results are for 'Abstract Modeling and SAE [in Publisher]'. The filters show 'Content' with 'Article', 'Book', 'Technical Paper', 'Standard: Current', and 'Standard' selected, and 'Date' with '2013' selected. The results show 'Viewing 1 to 50 of 2050' items. A highlighted entry is 'Power Cylinder Oil Consumption: Methods of Measurement' by J1939/71_201404, dated 2013-12-20, with the status 'Reaffirmed' and 'Historical'. It is categorized as an 'Aerospace Material Specification'. The abstract describes the application of SAE Recommended Practice to oil-to-water oil coolers. A 'My Access' callout box explains: 'Limit search to only those documents included in your subscription(s), allowing you to view the full text rather than just summary information.'

新・検索結果ページ

The screenshot shows the SAE International search results page. The search criteria are: Content: Article, Book, Technical Paper, Standard: Current, Standard: WIP; Date: 2013. The results list includes:

- Power Cylinder Oil Consumption: Methods of Measurement** (J1939/71_201404) - Aerospace Material Specification
- Detailed Analysis of Variables Affecting Wing Kinematics of Bat Flight** (2013-01-9003) - Technical Paper
- An Assessment of the Influence of Gas Turbine Lubricant Thermal Oxidation Test Method Parameters Towards the Development of a New Engine Representative Laboratory Test Method** (2013-01-9004) - Technical Paper
- New Methodology for Transient Engine Rig Experiments for Efficient Parameter Tuning** (2013-01-9043) - Technical Paper

Callouts highlight the following features:

- 検索ウィンドウ** (Search Window): Points to the search bar at the top.
- ページ切り替え** (Page Switching): Points to the 'Back' and 'Next' buttons.
- 契約内容一覧** (Contract Content List): Points to the 'Filter' section on the right.
- 検索基準** (Search Criteria): Points to the search filters at the top.
- 索引はフィルター付き** (Index with Filter): Points to the 'Filter' section on the right.
- ツリー構造の契約一覧** (Tree Structure Contract List): Points to the 'My Access' filter tree on the right.
- プレビュー機能** (Preview Function): Points to the 'Preview' button for a document.
- 個別購入ボタン** (Individual Purchase Button): Points to the 'Purchase' button for item AMS7273D.
- 既アクセスページは別色** (Previously Accessed Pages are Different Color): Points to the highlighted 'Detailed Analysis of Variables Affecting Wing Kinematics of Bat Flight' entry.

検索結果ページ: 検索語の消去方法

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SAE INTERNATIONAL DIGITAL LIBRARY MY ACCESS Logout Provided by SAE International [Sales Team]

Enter Keyword, Title, Product Number, Etc. My Access Search Advanced Search

Search Results: oil All Results 10222 My Access 6977

Access: Historical Aerospace Standards

Showing 1 to 25 of 10222 Display: List Sort By: Relevance

Email Print Export Back Next

Observation of Transient **Oil** Consumption with In-Cylinder Variables 961910 Download Citation

Susumu Ariga
1996-10-01 DOI: 10.4271/961910 Technical Paper

Only a limited understanding of the **oil** consumption mechanism appears to exist, especially **oil** consumption under transient engine operating conditions. This is probably due to the difficulty in engine instrumentation for measuring not only **oil** consumption, but also for measuring the associated in-cylinder variables. Because of this difficulty, a relatively large number of experiments and tests are often necessary for the development of each engine design in order to achieve the target **oil** consumption that meets the requirements for particulate emissions standards, **oil** economy, and engine reliability and durability.

Oil Flow in Piston **Oil** Ring Groove 2012-08-0317 Download

Shigenori Ichinose, Kiyoshi Iwade, Hidetoshi Kawai, Yoshiharu Hata
2012-05-23 Technical Paper

In the internal combustion engine, it is important to eject lubrication **oil** from the **oil** ring groove smoothly. The **oil** flow in the **oil** ring groove was observed in order to improve the **oil** ejection efficiency in the **oil** ring groove. The **oil** flow was visualized with the clear head piston using the fluorescing agent and particles under motoring condition. The influence of **oil** ring specification to direction and velocity of **oil** flow was evaluated. The velocity of the **oil** ring with **oil** vent holes was faster than that of the **oil** ring without **oil** vent holes. In the case of **oil** ring with vent holes, the reverse flow of the **oil** toward the front side was observed in the back clearance. Therefore, **oil** vent holes change the **oil** flow and improve the **oil** ejection efficiency in the **oil** ring groove.

Refresh Results

Filter

My Subscriptions

- Aerospace Material Specification
 - Aerospace Material Specifications
 - Historical Aerospace Material Specifications
- Aerospace Standards
 - Aerospace Standards
 - Historical Aerospace Standards
- Custom Collections
 - Ground Vehicle Lighting
 - Ground Vehicle Lighting Regulations
- eBook
 - Brakes
 - SAE eBooks
 - Safety
- Ground Vehicle Standards
 - Ground Vehicle Standards
 - Historical Ground Vehicle Standards
 - USCAR Reports
- Journal Articles
 - Journal Articles 1998 - Present
- Magazines
 - Aerospace Engineering [2012]
 - Aerospace Engineering [2013]
 - Aerospace Engineering [2014]
 - Aerospace Engineering [All]
 - Automotive Engineering [2012]
 - Automotive Engineering [2013]
 - Automotive Engineering [2014]
 - Automotive Engineering [All]

ソートと閲覧ページ

Search Results: Abstract Modeling and SAE [in Publisher] All Results 10484 My Access 2050

Content:
Date: 2013

Viewing 1 to 50 of 2050 Display: List Sort By: Relevance

Email Print Export

Power Cylinder Oil Consumption: Methods of Measurement J1939/71_201404
2013-12-20 Reaffirmed Historical Aerospace Material Specification
This SAE Recommended Practice is applicable to oil-to-water oil coolers installed on mobile or stationary equipment. Such oil coolers may be used for the purpose of cooling automatic transmission fluid, hydraulic system oil, retarder system fluids, etc. The purpose of this document is to ... [More](#)

ソート・オプション

Search Results: Abstract Modeling and SAE [in Publisher] All Results 10484

Content:
Date: 2013

Viewing 1 to 50 of 2050 Display: List Sort By: Relevance

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Power Cylinder Oil Consumption: Methods of Measurement J1939/71_201404
2013-12-20 Reaffirmed Historical Aerospace Material Specification
This SAE Recommended Practice is applicable to oil-to-water oil coolers installed on mobile or stationary equipment. Such oil coolers may be used for the purpose of cooling automatic transmission fluid, hydraulic system oil, retarder system fluids, etc. The purpose of this document is to ... [More](#)

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The screenshot shows the SAE International Digital Library search page. At the top, there are navigation links: Overview, Support, What's New, Terms & Conditions, Contact Us, and SAE Home. The main header includes the SAE International logo, the text 'DIGITAL LIBRARY', a 'MY ACCESS' button with a 'Logout' link, and the text 'Provided by ACME Librarian Association of Texas University Austin'. A search bar contains the placeholder text 'Enter Keyword, Title, Product Number, Etc.' and a 'Search' button. Below the search bar, there are two tabs: 'All Results 10484' and 'My Access 2050'. The 'Advanced Search' section features four text input fields, each with a dropdown menu set to 'Or' and a dropdown menu set to 'Any'. A 'Date' section has a 'Within' dropdown and a 'Last:' dropdown menu with options: 3 Months, 6 Months, 1 Year, 5 Years, 10 Years, 25 Years, and 50 Years. A 'Filter' section on the right lists various categories under 'My Access' and 'Content'. A blue callout box with the text '検索語は5種類' (5 search terms) points to the search bar area. Another blue callout box with the text '新・年次検索の範囲' (New search range by year) points to the 'Last:' dropdown menu.

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SAE INTERNATIONAL DIGITAL LIBRARY MY ACCESS Logout Provided by ACME Librarian Association of Texas University Austin

Enter Keyword, Title, Product Number, Etc. My Access Search Advanced Search

Advanced Search All Results 10484 My Access 2050

Text: Enter Keyword, Title, Product Number, Etc. in: Any Or Or Or

Date: Within Last: 3 Months 3 Months 6 Months 1 Year 5 Years 10 Years 25 Years 50 Years

Advanced Search

Filter

My Access

- Aerospace Material Specification
- Aerospace Standards
- Historical Aerospace Standards
- Custom Collections
- Ground Vehicle Lighting
- Ground Vehicle Lighting Regulations
- UM-IOE437 Fall2014

Content

- Book
- Handbook Supplement (HS)
- Index
- Journal
- Magazine
- Magazine Article
- Magazine Feature Article
- Magazine Issue
- Market Research Report
- Paper
- Journal Article
- Technical Paper

契約管理情報 (ユーザ・オプション)

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Enter Keyword, Title, Product Number, Etc. My Access Search Advanced Search

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Download: 5 Total / 10 Limit

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<input type="checkbox"/>	Power Cylinder Oil Consumption: Methods of Measurement J2796_200702 2013-12-20 Reaffirmed Historical Aerospace Material Specification	Download
Updated Revision Available for Download Below		
<input type="checkbox"/>	Power Cylinder Oil Consumption: Methods of Measurement J2796_201203 2014-10-20 Reaffirmed Aerospace Material Specification	Download
<input type="checkbox"/>	Detailed Analysis of Variables Affecting Wing Kinematics of Bat Flight 2013-01-9003 2013-12-20 DOI: 10.4271/2001-01-1969 Technical Paper	Download
<input type="checkbox"/>	An Assessment of the Influence of Gas Turbine Lubricant Thermal Oxidation Test Method Parameters Towards the Development of a New Engine Representative Laboratory Test Method 2013-01-9004 2013-12-20 DOI: 10.4271/2001-01-1969 Technical Paper	Download
<input type="checkbox"/>	New Methodology for Transient Engine Rig Experiments for Efficient Parameter Tuning 2013-01-9043 2013-12-20 DOI: 10.4271/2001-01-1969 Technical Paper	Download
<input type="checkbox"/>	L.E.D. Signal and Marking Lighting Devices J1889 Some Subtitle Just to See How This Will Look 2014-12-20 Revised Ground Vehicle Standard	Download

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An Assessment of the Influence of Gas Turbine Lubricant Thermal Oxidation Test Method Parameters Towards the Development of a New Engine Representative Laboratory Test Method

Details Revisions References Share Technical Paper

Paper #: **2013-01-9004** Published: 2013-12-20 [Download](#)

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ISSN: 11546154-021021 [Preview](#)

Citation: Spencer, M., Shepherd, T., Greenwood, R., and Simmons, M., "An Assessment of the Influence of Gas Turbine Lubricant Thermal Oxidation Test Method Parameters Towards the Development of a New Engine Representative Laboratory Test Method," *SAE Int. J. Aerosp.* 6(2):819-827, 2013, doi:10.4271/2013-01-9004. [Email](#)

Author(s): [Matthew Spencer - Rolls-Royce and University of Birmingham](#) [Timothy Shepherd - Rolls-Royce](#) [Richard Greenwood - University of Birmingham](#) [Mark Simmons - University of Birmingham](#) [Print](#)

Publisher: [SAE International](#)

Abstract: In the development of a more accurate laboratory scale method, the ability to replicate the thermal oxidative degradation mechanisms seen in gas turbine lubricants, is an essential requirement. This work describes an investigation into the influence of key reaction parameters and the equipment set up upon extent and mechanism of oil degradation.

The air flow rate through the equipment was found to be critical to both degradation rate and extent of volatilization loss from the system. As these volatile species can participate in further reactions, it is important that the extent to which they are allowed to leave the test system is matched, where possible, to the conditions in the gas turbine. The presence of metal specimens was shown to have a small influence on the rate of degradation of the lubricant. Loss of metal from the copper and silver specimens due to the mild corrosive effect of the lubricant was seen.

The Total Add Number and viscosity of a series of oil samples from two service gas turbines are discussed. The ratio of these two physical properties was approximately constant between samples, indicating constant evaporation loss. Additionally, Gel Permeation Chromatography was used to compare the molecular weight distribution of a lubricant used in a gas turbine to laboratory samples. The replenishment of oil in service engines was highlighted as key difference between these samples. It is believed that laboratory methods can degrade oil similarly to service engines and therefore can be used to predict oil life and condition in service.

Affiliated: [Rolls-Royce](#) [University of Birmingham](#)

Sector: [Aerospace](#)

Topic: [Lubricants](#) [Gas turbines](#) [Test procedures](#)

Event: [SAE International Journal of Aerospace Call for Papers](#)

Language: English Published In: United States

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An Assessment of the Influence of Gas Turbine Lubricant Thermal Oxidation Test Method Parameters Towards the Development of a New Engine Representative Laboratory Test Method

Details Revisions **References** Share Technical Paper

Also In: **SAE Int. J. Aerosp.**
Number: V122-1EJ; Published: 2013-12-20

SAE Int. J. Aerosp.
Number: V121-1EJ; Published: 2012-06-20

Reference: 1. Edge, R. and Squires, A., "Lubricant Evaluation and Systems Design for Aircraft Gas Turbine Engines," SAE Technical Paper 690424, 1969, doi:10.4271/690424.
2. Bakunin, V.N., Parenago, O.P., "A Mechanism of Thermo oxidative Degradation of Polyol Ester Lubricants," Journal of Synthetic Lubrication. 9 (2) 127-143, 1992.
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Serial Control and Communications Heavy Duty Vehicle Network - Top Level Document

Details | Revisions | Cross References | Share

Latest Version | Ground Vehicle Standard

Standard: **J1939_201308** | Published: 2013-12-20

Status: **Revised**

Issuing: [Truck Bus Control And Communications Network Committee](#)

Publisher: [SAE International](#)

Scope: This top level document provides a general overview of the SAE J1939 network and describes the subordinate document structure. This document includes definitions of terms and abbreviations which are used among the various SAE J1939 subordinate documents. The SAE J1939DA Digital Annex spreadsheet replaces the Appendices of this document for the publication of the list of all SPN assignments, PGN assignments, NAME Function assignments, Manufacturer Code assignments, and Preferred Address assignments. This document has been updated to reflect the change to discontinue publishing the content of Table A2, Tables B1 through B12, and Table C1 in Appendix A, Appendix B, and Appendix C; instead, this content is now published in the SAE J1939DA Digital Annex spreadsheet.

Rationale: This document has been updated to reflect the change to discontinue publishing the content of Table A2, Tables B1 through B12, and Table C1 in Appendix A, Appendix B, and Appendix C; instead, this information is now published in the SAE J1939DA Digital Annex spreadsheet. This document has also been updated to reference SAE J1939-14 and various text updates throughout the document, including several sections of the SAE J1939 Overview.

Sector: [Automotive](#) | [Commercial Vehicle](#)

Topic: [Electrical, Electronics and Avionics](#) | [Telecommunications](#) | [Vehicle Networking](#) | [Trucks](#) | [Buses](#)

Language: English | Published In: United States

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Document	Published	Revision	Status	
<input checked="" type="checkbox"/> J1939_201308	2011-04-12	Latest	Revised ?	Download
<input type="checkbox"/> J1939_201206	2011-06-12	Historical	Revised ?	Citation
<input type="checkbox"/> J1939_201104	2012-04-12	Historical	Revised ?	Preview
<input type="checkbox"/> J1939_201004	2013-04-11	Historical	Revised ?	Email
				Print

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関連文書一覧(ハイライト)

The screenshot displays the SAE Digital Library interface. At the top, there are navigation links: Overview, Support, What's New, Terms & Conditions, and Contact Us. The SAE International logo is on the left, and the text 'DIGITAL LIBRARY' is next to it. A search bar is present with the placeholder text 'Enter Keyword, Title, Product Number, Etc.' and a 'Q Search' button. Below the search bar, the title of the document is 'Serial Control and Communications Heavy Duty Vehicle Network - Top Level Document'. There are tabs for 'Details', 'Revisions', 'Cross References' (which is selected), and 'Share'. On the right side of the document title, there are buttons for 'Latest Version' and 'Ground Vehicle Standard'. The main content area shows a list of cross-references under the heading 'Cross Reference:'. The list includes various ISO and JIS standards, such as ISO 11783, ISO 11898-1, ISO 11992, ISO 15765-3, ISO 7498, J1213B_198810, J1587_201301, J1708_201012, J1922_201108, J1939/02, J1939/03, J1939/1_201105, J1939/11_201209, J1939/13_201110, J1939/14_201110, J1939/15_201405, J1939/21_201012, J1939/31_201404, J1939/5_201204, J1939/71_201205, J1939/73_201307, J1939/74_201011, J1939/75_201105, J1939/81_201106, J1939/82_200808, J1939/84_201206, and J1939DA_201402. To the right of the list are icons for 'Download', 'Citation', 'Preview', 'Email', and 'Print'. At the bottom of the page, there are flags for various countries and the text '©2014 SAE International. All rights reserved.' and 'Advertise | About | Contact Us | Press | Legal & Policies'.