

2021 ACEA Engine Oil Sequences

	Test	Parameter	Reason	ACEA Categories
New	"ASTM D8350. [Sequence IVB Toyota 2NR-FE]"	Valve train wear	Replacement test of CEC L-038-94 to support wear protection	All categories
New	"JASO FE M366 [Toyota 2ZR-FXE]"	Fuel economy	Showing FE improvement with low viscosity oils from 0W20 down to 0W8	Category C6 only
New	"CEC L-114-19 [Toyota 1KD-FTV]"	Turbocharger compressor deposit (diesel)	Avoiding TCC deposit formation in the fleet and enabling diesel engine efficiency increase	Categories A7/B7 and C6
New	"ASTM D8291-19 [Sequence IX, Ford]"	Low speed pre-ignition GDI turbo	GDI turbo engine protection against pre-ignition fail- ures	Categories A7/B7 and C6
New	"ASTM D8279-19 [Sequence X, Ford]"	Chain wear GDI	Wear protection of GDI camshaft drive chain	Categories A7/B7 and C6
Successor	CEC L-117-20 [VW TDI]	DI diesel piston cleanliness & ring sticking	Successor test of CEC-L-078-99	All categories
Deletion	"CEC L-099-08 [OM646LA]"	Diesel engine wear	Hardware availability	All categories
Deletion	"CEC L-104-16 [OM646LA Bio]"	Effects of biodiesel	Hardware availability	All categories

Acea Engine Oil Specification What Does Acea Mean

Shasha Hu



Acea Engine Oil Specification What Does Acea Mean:

Synthetics, Mineral Oils, and Bio-Based Lubricants Leslie R. Rudnick, 2013-02-04 Highlighting the major economic and industrial changes in the lubrication industry since the first edition Synthetics Mineral Oils and Bio Based Lubricants Second Edition outlines the state of the art in each major lubricant application area Chapters cover trends in the major industries such as the use of lubricant fluids growth or decline Automotive Lubricants Reference Book Arthur J. Caines, Roger F. Haycock, John E. Hillier, 2004 The automotive lubricants arena has undergone significant changes since the first edition of this book was published in 1996 Environmental concerns particularly regarding improvement of air quality have been important in recent years Reduced emissions are directly related to changes in lubricant specifications and quality and the second edition of the Automotive Lubricants Reference Book reflects the urgency of such matters by including updated and expanded detail This second edition also considers the recent phenomenon of increased consolidation within the oil and petroleum additive arenas which has resulted in fewer people for research development and implementation along with fewer competing companies After reviewing the first edition the authors have fully reviewed and updated the information to fit in with the changes in technology and markets Chapters include Introduction and Fundamentals Constituents of Modern Lubricants Crankcase Oil Testing Crankcase Oil Quality Levels and Formulations Practical Experiences with Lubricant Problems Performance Levels Classification Specification and Approval of Engine Lubricants Other Lubricants for Road Vehicles Other Specialized Oils of Interest Blending Storage Purchase and Use Safety Health and the Environment The Future **Diesel Engine Reference Book** Bernard Challen, Rodica Baranescu, 1999 The Diesel Engine Reference Book Second Edition is a comprehensive work covering the design and application of diesel engines of all sizes The first edition was published in 1984 and since that time the diesel engine has made significant advances in application areas from passenger cars and light trucks through to large marine vessels The Diesel Engine Reference Book systematically covers all aspects of diesel engineering from thermodynamics theory and modelling to condition monitoring of engines in service It ranges through subjects of long term use and application to engine designers developers and users of the most ubiquitous mechanical power source in the world The latest edition leaves few of the original chapters untouched The technical changes of the past 20 years have been enormous and this is reflected in the book The essentials however remain the same and the clarity of the original remains Contributors to this well respected work include some of the most prominent and experienced engineers from the UK Europe and the USA Most types of diesel engines from most applications are represented from the smallest air cooled engines through passenger car and trucks to marine engines The approach to the subject is essentially practical and even in the most complex technological language remains straightforward with mathematics used only where necessary and then in a clear fashion The approach to the topics varies to suit the needs of different readers Some areas are covered in both an overview and also in some detail Many drawings graphs and

photographs illustrate the 30 chapters and a large easy to use index provides convenient access to any information the readers requires

Annual Index/abstracts of SAE Technical Papers ,2007 **Australian Journal of Mining** ,1997-08 **Petroleum Review** ,2006 **Engine Lubricants, Effects of Fuels & Lubricants on Automotive Devices, and Lubricant Applications & New Test Methods** ,2004 *Ullmann's Encyclopedia of Industrial Chemistry* ,2003

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Proceedings of the Fifteenth World Petroleum Congress, Exploration, Production and Downstream (Refining and Petrochemicals) World Petroleum Congress (WPC),1998-10-27 The WPC is dedicated to the application of scientific advances in the oil and gas industries to technology transfer and to the use of the world s petroleum resources The Fifteenth World Petroleum Congress was held between 12 16th October 1997 in Beijing China **Automotive Engineering International** ,2000-07 *Patents for Inventions. Abridgments of Specifications* Great Britain. Patent Office,1899 **Lubrication Engineering** ,2000 **Nafta** ,2005 *Statistics, Measurement & Testing* ,2004 *Documents* ,1996 Advances in Lubricant Additives and Tribology S.P. Srivastava,2009-03-15 It is understood that hydrogen is going to be the future clean fuel which can either be used in fuel cells or directly in engines This will mean that there will be challenges to the lubricant developers to meet the requirements of new engines using hydrogen as fuel where there would be no soot no sulphur and no carbon deposits from fuels Lubricating base oil technology has changed during the last decade API group III oils produced through hydro processes and GTL base oils are free from sulphur and nitrogen and have high viscosity index Therefore the engine oil formulations would have to change considerably in the near future The use of biodegradable lubricants mainly based on vegetable oils or genetically modified vegetable oils would increase in the agricultural and forest sector This book incorporates up to date information on these important subjects which shall enable the readers to understand the dynamics of lubricant additive technology and tribology The book will be useful to all those engaged in education and research in the field of lubricant additives and lubricants **OECD Papers** ,2004 A compilation of reports previously issued by the OECD

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