

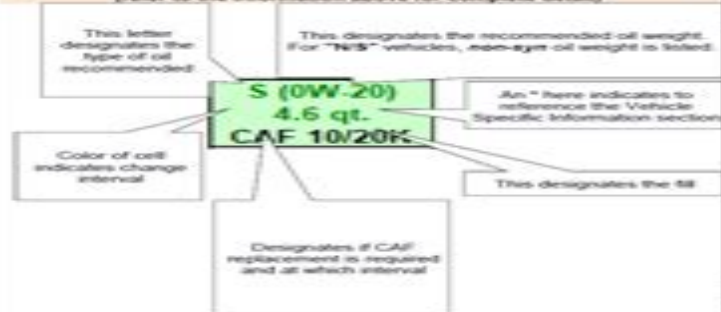
ASM Engine Oil & CAF Replacement Quick Reference Guide

Oil Type and Interval Reference	
S	Synthetic oil only
N	Non-synthetic (conventional) oil only
S II	Synthetic oil only (with 5K interval)
S PRS/A & T Yaris IA/S6	Synthetic oil only (with 7.5K interval)
6 month / 5,000 mi interval	
12 month / 10,000 mi interval	
7.5 month / 7,500 mi interval	
6 month / 7,500 mi interval	
CAF	Cabin Air Filter Replacement
10/15/20/30K intervals	See select models

Information not yet available for this model ☐
Model no longer available ☐

Information Key

(refer to the information above for complete detail)



Vehicle Specific Information

Oil max fill rate is based on published information at the launch of each MY vehicle and are subject to change. All capacities are "with filter."

*Flex Fuel vehicle operated with E85 more than 50% of the time must have oil change at 2500 miles.

**2017 Highlander/Highlander Hybrid vehicles equipped with High Efficiency Charcoal Cabin Air Filter, replace every 10,000 miles or 12 months, whichever comes first. If equipped with standard cabin air filter, replace every 30,000 miles or 36 months, whichever comes first.

NOTE: This Q&G can also be found in the Claim Processing & Resource Center and TIS.

Model/Engine # of Cylinders/Displacement (L)					2007	2008	2009	2010
					0.07525A			
4Runner	1GR-FE	6	4.0	S (0W-20) 4.6 qt.	S (0W-20) 5.4 qt.	S (0W-20) 5.4 qt.	S (0W-20) 5.4 qt.	
	2GR-FE	6	3.5	S (0W-20) 5.4 qt.	S (0W-20) 5.4 qt.			
Avalon				CAF 10/20K	CAF 10/20K			
	2GR-FKS	6	3.5			S (0W-20) CAF 10/20K	S (0W-20) CAF 10/20K	
Avalon HV	2AR-FXE	4	2.5	S (0W-20) 4.6 qt.	S (0W-20) 4.6 qt.			
	A25A-FXS	4	2.5			S (0W-18) 4.8 qt.	S (0W-18) 4.8 qt.	
Camry				CAF 10/20K	CAF 10/20K	CAF 10/20K	CAF 10/20K	
	2AR-FE	4	2.5	S (0W-20) 4.6 qt.				
	2GR-FE	6	3.5	S (0W-20) 5.4 qt.				
	A25A-FKS	4	2.5		S (0W-18) 4.8 qt.	S (0W-18) 4.8 qt.	S (0W-18) 4.8 qt.	
Camry HV				CAF 10/20K	CAF 10/20K	CAF 10/20K	CAF 10/20K	
	2GR-FKS	6	3.5		S (0W-20) CAF 10/20K	S (0W-20) CAF 10/20K	S (0W-20) CAF 10/20K	
Corolla	A25A-FXS	4	2.5	S (0W-20) 4.6 qt.	S (0W-18) 4.8 qt.	S (0W-18) 4.8 qt.	S (0W-18) 4.8 qt.	
	22R-FE	4	1.8	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	
Corolla HV	22R-FXE	4	1.8	S (0W-20) 4.4 qt.			S (0W-18) 4.4 qt.	
	22R-FAE	4	1.8	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	
Corolla H/B	M20A-FKS	4	2.0			S (0W-18) 4.8 qt.	S (0W-18) 4.8 qt.	
Corolla IM	22R-FAE	4	1.8	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.			
C-HR	3ZR-FAE	4	2.0		S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	
GR Supra	B58B30M	6	3.0				S (0W-20 C8) 6.5 L CAF 20K	
Highlander	1AR-FE	4	2.7	S (0W-20) 4.6 qt.	S (0W-20) 4.6 qt.	S (0W-20) 4.6 qt.		
				CAF 10/20K**	CAF 10/20K	CAF 10/20K		
	2GR-FE	6	3.5	S (0W-20) 5.4 qt.				
Highlander HV				CAF 10/20K**				
	2GR-FXS	6	3.5		S (0W-20) 5.8 qt.	S (0W-20) 5.8 qt.	S (0W-20) 5.8 qt.	
					CAF 10/20K	CAF 10/20K		
Land Cruiser				S (0W-20) 5.8 qt.	S (0W-20) 5.8 qt.	S (0W-20) 5.8 qt.		
	3UR-FE	8	5.7	S (0W-20) 7.9 qt.	S (0W-20) 7.9 qt.	S (0W-20) 7.9 qt.	S (0W-20) 7.9 qt.	
Mirai	n/a	n/a	n/a	0W-160-20 0.07525A	0W-160-20 0.07525A	0W-160-20 0.07525A	0W-160-20 0.07525A	
Prius c	1NZ-FXE	4	1.5	S (0W-20) 3.9 qt.	S (0W-20) 3.9 qt.	S (0W-20) 3.9 qt.	S (0W-20) 3.9 qt.	
Prius/Prius v/Prius Plug-In	2ZR-FXE	4	1.8	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-18) 4.4 qt.	S (0W-18) 4.4 qt.	
Prius Prime	2ZR-FXE	4	1.8	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-18) 4.4 qt.	
RAV4	2AR-FE	4	2.5	S (0W-20) 4.6 qt.	S (0W-20) 4.6 qt.			
	A25A-FXS	4	2.5			S (0W-18) 4.8 qt.	S (0W-18) 4.8 qt.	
RAV4 HV	2AR-FXE	4	2.5	S (0W-20) 4.6 qt.	S (0W-20) 4.6 qt.			
	A25A-FXS	4	2.5			S (0W-18) 4.8 qt.	S (0W-18) 4.8 qt.	
Sequoia	3UR-FE	8	5.7	S (0W-20) 7.9 qt.	S (0W-20) 7.9 qt.	S (0W-20) 7.9 qt.	S (0W-20) 8.5 qt.	
	3UR-FBE	8	5.7	S (0W-20) 7.9 qt.	S (0W-20) 7.9 qt.			
Sienna				S (0W-20) 5.8 qt.	S (0W-20) 5.8 qt.	S (0W-20) 5.8 qt.	S (0W-20) 5.8 qt.	
	2TR-FE	4	2.7	S (0W-20) 6.2 qt.	S (0W-20) 6.2 qt.	S (0W-20) 6.2 qt.	S (0W-20) 6.2 qt.	
Tacoma				CAF 20K	CAF 20K	CAF 20K	CAF 20K	
	2GR-FKS	6	3.5	S (0W-20) 6.2 qt.	S (0W-20) 6.2 qt.	S (0W-20) 6.2 qt.	S (0W-20) 6.2 qt.	
Tundra				CAF 20K	CAF 20K	CAF 20K	CAF 20K	
	1UR-FE	8	4.6	S (0W-20) 7.9 qt.	S (0W-20) 8.5 qt.	S (0W-20) 8.5 qt.		
	3UR-FE	8	5.7	S (0W-20) 7.9 qt.	S (0W-20) 8.5 qt.	S (0W-20) 8.5 qt.	S (0W-20) 8.5 qt.	
Yaris/Yaris Liftback				S (0W-20) 7.9 qt.	S (0W-20) 8.5 qt.	S (0W-20) 8.5 qt.		
	3UR-FBE	8	5.7					
Yaris IA/Sedan/Hatchback	1NZ-FE	4	1.5	N (0W-30) 3.9 qt.	M (0W-30) 3.9 qt.	N (0W-30) 3.9 qt.		
\$6	FA20	4	2.0	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	S (0W-20) 4.4 qt.	

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Rainer Erne



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The Quintessence of Supply Chain Management Rolf G. Poluha, 2016-01-08 This book describes the fundamentals of Supply Chain Management in clear and concise terms It explains why in the near future real competition is going to be between supply chains and what the consequences will be Managers and decision makers will be able to build on their business s competitive advantage with the essentials provided in this work The focus here is upon what you really need to know in order to optimally manage your processes in procurement manufacturing warehousing and logistics In addition to a wealth of illustrations and examples valuable suggestions for further expansive reading are included Essential insights are provided into how to analyse and evaluate the supply chain based upon key aspects from research and practice which helps readers to initiate their own optimisation processes

Smart Manufacturing Anthony Tarantino, 2022-05-10 Explore the dramatic changes brought on by the new manufacturing technologies of Industry 4 0 In *Smart Manufacturing The Lean Six Sigma Way* Dr Anthony Tarantino delivers an insightful and eye opening exploration of the ways the Fourth Industrial Revolution is dramatically changing the way we manufacture products across the world and especially how it will revitalize manufacturing in North America and Europe The author examines the role and impact of a variety of new Smart technologies including industrial IoT computer vision mobile edge computing 3D printing robots big data analytics and the cloud He demonstrates how to apply these new technologies to over 20 continuous improvement Lean Six Sigma tools greatly enhancing their effectiveness and ease of use The book also discusses the role Smart technologies will play in improving Career opportunities for women in manufacturing Cyber security supply chain risk and logistics resiliency Workplace health safety and security Life on the manufacturing floor Operational efficiencies and customer satisfaction Perfect for anyone involved in the manufacturing or distribution of products in the 21st century *Smart Manufacturing The Lean Six Sigma Way* belongs in the libraries of anyone interested in the intersection of technology commerce and physical manufacturing

Handbook of Research on Managerial Strategies for Achieving Optimal Performance in Industrial Processes

Alor-Hernández, Giner, Sánchez-Ramírez, Cuauhtémoc, García-Alcaraz, Jorge Luis, 2016-05-03 Competitive advantage is a key factor to the success of any business in modern society To achieve this goal effective strategies for process improvement must be researched and implemented into an organization The *Handbook of Research on Managerial Strategies for Achieving Optimal Performance in Industrial Processes* examines optimization techniques for improved business operations and procedures in the industrial sector Highlighting management techniques innovative approaches and technological tools this publication is an essential reference source for professionals researchers consultants upper level students and academicians interested in the advancement of knowledge in industrial communities

Lean Project Management - How to Apply Lean Thinking to Project Management Rainer Erne, 2022-01-29 This book shows how the principles of Lean Management can be applied to project management and how some typical problems of project management can be solved by this The

author first provides a theoretical description of what project management is about and explains its tasks and methods as well as its limitations. He also describes how the Lean idea came about and derives five principles from it that can also be applied to project management. Along these principles the author then elaborates typical current challenges of project management and shows how these challenges can be tackled through Lean Project Management. In doing so he does not stop at the level of principles but describes specific tasks and tools that are useful especially for experienced practitioners of project management. This book is a translation of the original German 1st edition *Lean Project Management Wie man den Lean Gedanken im Projektmanagement einsetzen kann* by Rainer Erne published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2019. The translation was done with the help of artificial intelligence machine translation by the service DeepL.com. A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors.

The Nature of Purchasing
 Florian Schupp, Heiko Wöhner, 2020-05-20. This book was created in the spirit of learning from nature in the field of professional purchasing. It describes real world purchasing problems faced by companies as well as individuals and presents natural hands on solutions that apply scientific approaches. The book answers what the core of purchasing could be the inner structure of it or in other words the natural way Nature masters effectiveness based on immanent laws and ensures efficiency by best results for minimal invest. Especially in complex and ambiguous situations purchasers benefit from this book by understanding the broader context with the help of recent scientific research. Focusing on the problems that purchasers face in managerial practice rather than oversimplified generalizations the book features step by step explanations allowing readers to find tailored solutions to address challenges in key purchasing areas. The book was written in collaboration and with the help of experts in purchasing and logistics biology law and economics human resource development media and sports and merges perspectives from theory and practice to provide natural strategies for purchasers.

Sustainable Business: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-08-02. In the increasingly competitive corporate sector businesses must examine their current practices to ensure business success. By examining their social financial and environmental risks obligations and opportunities businesses can re design their operations more effectively to ensure prosperity. *Sustainable Business Concepts Methodologies Tools and Applications* is a vital reference source that explores the best practices that promote business sustainability including examining how economic social and environmental aspects are related to each other in the company's management and performance. Highlighting a range of topics such as lean manufacturing sustainable business model innovation and ethical consumerism this multi volume book is ideally designed for entrepreneurs business executives business professionals managers and academics seeking current research on sustainable business practices.

Athletic

Director's Desk Reference Donna A. Lopiano, Connee Zotos, 2022-02-15 This applied reference includes management tips planning tools and policies for athletic administrators Designed primarily as a reference for intercollegiate athletic program administrators high school athletic administrators courses in athletic administrations and libraries *The Field Guide to Rapid Process Improvement Workshops in Healthcare* Cameron Stark, Gavin Hookway, Gill McVicar, Hugo Van Woerden, 2023-10-11 This book takes the reader through the process to plan deliver and follow up a weeklong Lean Quality Improvement event usually termed a Rapid Improvement Event or Rapid Process Improvement Workshop RPIW Drawing on the experience of conducting over 100 of these workshops the book gives readers the information to plan and run their own event It describes how RPIWs fit in to wider improvement processes and how the reader can maximize these processes in their own organization These weeklong improvement events are popular in health and social care but there are no textbooks available to support them There are several books that describe the use of shorter Kaizen events in health care but none that describe the process of delivering weeklong events The events have a rhythm specific to the one week format and the book seeks to help people to make use of best practice and to avoid common problems Based on the experiences of the authors this book includes an introduction to Lean concepts linked to the relevant part of the process description examples and templates of forms that can be used in workshops and photographs of actual events *Training to Deliver Integrated Care* C.R. Macchi, Rodger Kessler, 2018-08-22 This unique trainer's resource offers a comprehensive blueprint for preparing clinicians for practice in the changing and challenging environment of integrated care Based firmly in new evidence based models of behavioral care in medicine it sets out the aims and objectives of modern integrated care delivery in a streamlined pedagogy to practice framework Teaching strategies for developing core skills and competencies suitable across diverse educational and workforce development settings are presented with data based rationales and guidelines for design and implementation Chapters also cover the range of essentials from research support to business acumen to program evaluation methods needed to meet bedrock goals of improved quality of care clinical outcomes and patient satisfaction The book's comprehensive coverage Reviews the evidence base for integrating medical and behavioral care Provides empirically sound guidelines for training learners in integrated practice Breaks down skill development into critical training objectives Offers detailed content of a current degree program in integrative behavioral medicine Recommends measures to support responsive patient centered and sustainable training programs A robust guide to a more inclusive and effective future Training to Deliver Integrated Care expands the healthcare horizon to accommodate trainers working in health psychology general practice primary care medicine and consulting as well as supervision and coaching professionals **Quality Planning and Assurance** Herman Tang, 2021-11-23 QUALITY PLANNING AND ASSURANCE Discover the most crucial aspects of quality systems planning critical to manufacturing and service success In Quality Planning and Assurance Principles Approaches and Methods for Product and Service Development accomplished engineer Dr Herman Tang delivers

an incisive presentation of the principles of quality systems planning The book begins with an introduction to the meaning of the word quality before moving on to review the principles of quality strategy and policy management The author then offers a detailed discussion of customer needs and the corresponding quality planning tasks in design phases as well as a treatment of the design processes necessary to ensure product or service quality Readers will enjoy explorations of advanced topics related to proactive approaches to quality management like failure modes and effects analysis FMEA They ll discover discussions of issues like supplier quality management and the key processes associated with quality planning and execution The book also includes A thorough introduction to quality planning including definitions discussions of quality system and an overview of the planning process A comprehensive exploration of strategic planning development including strategic management risk management and analysis and pull and push strategies Practical discussions of customer centric planning including customer oriented design quality function deployment and affective engineering In depth examinations of quality assurance by design including the design review process design verification and validation and concurrent engineering Perfect for senior undergraduate and graduate students in technology and management programs Quality Planning and Assurance will also earn a place in the libraries of managers and technical specialists in a wide range of fields including quality management

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web by mika sep 30 2022 tribes a hogan is a traditional navajo home the word hogan comes from the navajo word hooghan which means house a hogan is usually made out of logs mud and stone the navajo people have lived in hogan s for centuries the hogan is a very important part of navajo culture

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web mar 2 2022 a hogan a traditional handcrafted home built out of eight walls and rooms is the perfect setting to showcase the authentic flavors of navajo the hogan is primarily used for ceremonial purposes but some individuals in the area are actually lodging tourists so they can experience the true culture and tradition of the area

usu blanding to construct navajo hogan on campus - May 19 2022

web may 12 2021 utah state university blanding has announced plans to construct a native american hogan for its students on campus the structure will be in the traditional hogan style preliminary groundwork has already begun on the new structure and construction will begin in the next couple weeks on campus

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web follow our easy how to build a navajo hogan instructions remember we are going to make this hogan in the traditional navajo way so it all begins with a prayer one that asks for a good home now we have to go and gather

have you heard of a navajo hogan architectural digest - Aug 02 2023

web may 2 2018 tiny homes are a thing these days but let s pay our respects to the ogs one of the most striking is the navajo hogan a basic dome shaped one room dwelling that dates to the early 1400s and

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web jul 27 2021 the hogan style home prototype is approximately 1 200 square feet and consists of two bedrooms one bathroom a laundry room and an open floor plan for the kitchen and living room other floor plans also include three four and five bedrooms the lack of suitable and safe housing on the navajo nation is a serious issue

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web the navajos used to make their houses called hogans of wooden poles tree bark and mud the doorway of each hogan opened to the east so they could get the morning sun as well as good blessings today many diné families still live in hogans although trailers or more modern houses are tending to replace them

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