



Lubricants Cross Reference Guide

MINERAL OIL	Part #	Viscosity	Equivalent Part #	OEM Part #
NL 150	1501G	150 SUS/32 ISO	Calumet C3, Suniso 3GS	York D, F – Trane 32, 43
NL 300	3001G	300 SUS/68 ISO	Calumet C4, Suniso 4GS	York C – Trane 15, 31, 45
NL 500	5001G	500 SUS/100 ISO	Calumet C5, Suniso 5GS	York E
NL WF 32	WF32	150 SUS/32 ISO	Texaco WF 32	
NL WF 68	1TD	300 SUS/68 ISO	Texaco WF 68	York A

ALKYLBENZENE	Part #	Viscosity	Equivalent Part #	OEM Part #
NL AKB 150	150AKB1G	150 SUS/32 ISO	Zenol 150, Soltext 150	
NL AKB 200R	200AKB1G	200 SUS/46 ISO	Zenol 200TD	
NL AKB 300	300AKB1G	300 SUS/68 ISO	Zenol 300, Soltext 300	

POLYOLESTER	Part #	Viscosity	Equivalent Part #	OEM Part #
NL PE 32	PE321G	150 SUS/32 ISO	Ultra 32-3MAE, Castrol SW32	York K, O – Trane 78
NL PE 68	PE681G	300 SUS/68 ISO	Emkarate 68H, Castrol SW68	York H – Trane 37, 48

Solest® Product Name	Part #	Viscosity	Equivalent OEM Part #
Solest LT 32	SolestLT321G	32 ISO/150 SUS	York K
Solest 46	Solest461G	46 ISO/200 SUS	York J
Solest 68	Solest681G	68 ISO/300 SUS	York H - Trane 37 - Frick 13
Solest 100	Solest1001G	100 ISO/500 SUS	York S
Solest 120	Solest1201G	120 ISO/600 SUS	York L
Solest 150	Solest1501G	150 ISO/700 SUS	
Solest 170	Solest1701G	170 ISO/800 SUS	
Solest 220	Solest2201G	220 ISO/1000 SUS	Castrol SW220
CP 4214-320	CP4214-3201G	320 ISO/1500 SUS	York G
Solest 370	Solest3701G	370 ISO/1700 SUS	
AKB 500 E	AKB500E1G	100 ISO/500 SUS	BVA 100E, Zenol 500

Lubrication Cross Reference Guide

N Noddings



Lubrication Cross Reference Guide:

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

Lubrication Fundamentals, Revised and Expanded Don M. Pirro, Martin Webster, Ekkehard Daschner, 2017-07-31 Careful selection of the right lubricants is required to keep a machine running smoothly Lubrication Fundamentals Third Edition Revised and Expanded describes the need and design for the many specialized oils and greases used to lubricate machine elements and builds on the tribology and lubrication basics discussed in previous editions Utilizing knowledge from leading experts in the field the third edition covers new lubrication requirements crude oil composition and selection base stock manufacture lubricant formulation and evaluation machinery and lubrication fundamentals and environmental stewardship The book combines lubrication theory with practical knowledge and provides many useful illustrations to highlight key industrial commercial marine aviation and automotive lubricant applications and concepts All previous edition chapters have been updated to include new technologies applications and specifications that have been introduced in the past 15 years What's New in the Third Edition Adds three new chapters on the growing renewable energy application of wind turbines the impact of lubricants on energy efficiency and best practice guidelines on establishing an in service lubricant analysis program Updates API SAE and ACEA engine oil specifications descriptions of new engine oil tests impact of engine and fuel technology trends on engine oil Includes the latest environmental lubricant tests definitions and labelling programs Compiles expert information from ExxonMobil publications and the foremost international equipment builders and industry associations Covers key influences impacting lubricant formulations and technology Offers data on global energy demand and interesting statistics such as the worldwide population of nuclear reactors wind turbines and output of hydraulic turbines Presents new sections on the history of synthetic lubricants and hazardous chemical labeling for lubricants Whether used as a training guide for industry novices a textbook

for students to understand lubrication principles or a technical reference for experienced lubrication and tribology professionals Lubrication Fundamentals Third Edition Revised and Expanded is a must read for maintenance professionals lubricant formulators and marketers chemists and lubrication surface chemical mechanical and automotive engineers

Technical Manual United States. War Department, 1944 **CRC Handbook of Lubrication and Tribology, Volume III** E. Richard Booser, 1993-12-21 Volume III extends this handbook series to cover new developments and topics in tribology that have occurred during the past decade It includes in depth discussions on revolutionary magnetic bearings used in demanding applications in compressors high speed spindles and aerospace equipment Extensive coverage is given to tribology developments in office machines and in magnetic storage systems for computers Monitoring sensors are addressed in the first chapter followed by chapters on specific monitoring techniques for automobiles diesels and rotating machines One chapter is devoted to procedures used for tracking the remaining life of lubricants Synthetic lubricants are discussed by outstanding specialists in this rapidly developing field Synthetics are increasingly important in widely diverse areas including compressors using the new ozone layer friendly refrigerants and a variety of extreme temperature and environmentally sensitive applications Water and gas lubricated bearings are given similar attention The contributors also develop a new unified coverage for fatigue life of ball and roller bearings for design and application of porous metal bearings for self contained lubrication involving oil rings disks and wicks and for plastic bearings Each of these classes of bearings are used by the millions daily throughout industry The three volume handbook is an essential reference to tribologists and lubrication mechanical and automotive engineers It is invaluable to lubricant suppliers bearing companies those working in the aerospace industry and anyone concerned with machine design machinery wear and maintenance **Technical Manual** United States Department of the Army, 1982 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1952 Includes Part 1A Books and Part 1B Pamphlets Serials and Contributions to Periodicals Civil Airworthiness Certification Miguel Vasconcelos, United States Department of Transportation, Federal Aviation Administration, 2013-09-19 This publication provides safety information and guidance to those involved in the certification operation and maintenance of high performance former military aircraft to help assess and mitigate safety hazards and risk factors for the aircraft within the context provided by Title 49 United States Code 49 U S C and Title 14 Code of Federal Regulations 14 CFR and associated FAA policies Specific models include A 37 Dragonfly A 4 Skyhawk F 86 Sabre F 100 Super Sabre F 104 Starfighter OV 1 Mohawk T 2 Buckeye T 33 Shooting Star T 38 Talon Alpha Jet BAC 167 Strikemaster Hawker Hunter L 39 Albatros MB 326 MB 339 ME 262 MiG 17 Fresco MiG 21 Fishbed MiG 23 Flogger MiG 29 Fulcrum S 211 DISTRIBUTION Unclassified Publicly Available Unlimited COPYRIGHT Graphic sources Contains materials copyrighted by other individuals Copyrighted materials are used with permission Permission granted for this document only Where applicable the proper license s i e GFD or use requirements i e citation only are applied Operator's, Organizational,

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web nov 16 2022 basic concepts in this section we will introduce some common notation for vectors as well as some of the basic concepts about vectors such as the magnitude of a vector and unit vectors we also illustrate how to

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web opening chapters define vector addition and subtraction show how to resolve and determine the direction of two or more vectors and explain systems of coordinates vector equations of a plane and straight line relative velocity and

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web components of vectors for the analytical method of vector addition and subtraction we use some simple geometry and trigonometry instead of using a ruler and protractor as we did for graphical methods however the graphical method will still come in handy to visualize the problem by drawing vectors using the head to tail method

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web numerically the solution is dab d0 db da i10 i5 j2 i3 j3 i12 j5 6 find the unit vectors that point from a to the other points b to g in question 2 express each vector in component ij notation

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web 2 review of vector analysis electromagnetic field theory is the study of forces between charged particles resulting in energy conversion or signal transmiss ion and reception these forces vary in magnitude and direction with time and throughout space so that the theory is a heavy user of vector differential and integral calculus