The Relationship Between Engine Oil Viscosity and Engine Performance—Part IV

A Joint Publication of the
Society of Automotive Engineers, Inc.
SAE SP-434
and
American Society for Testing and Materials
ASTM STP-621-S3

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Sponsored by:
Society of Automotive Engineers, Inc.
and
American Society for Testing and Materials

SP-434

Presented at:
1978 SAE International Fuels
and Lubricants Meeting
Toronto, Canada
November 13-16, 1978

Published by:
Society of Automotive Engineers, Inc.
400 Commonwealth Drive
Warrendale, PA 15096
November 1978

SAE/SP-78/434
Library of Congress Catalog Card Number: 77-150198

FOREWORD

The present collection of papers on the subject of the Relationship Between Engine Oil Viscosity and Engine Performance is Part IV of a series of symposia on this subject which have been sponsored by the Society of Automotive Engineers, Inc. and the American Society for Testing and Materials. Several different facets of the complex relationship between this major source of the world's mechanical power—the engine, and the engine's sole protection against immediate and catastrophic breakdown—the engine oil, have been studied, presented, and discussed in the previous symposia. In this, the Fourth Symposium, the authors: 1) look at the effect of viscosity on oil supply to the engine at low temperatures and low shear (W. Wiemann and W. J. Bartz); 2) present high-shear studies of the viscous properties of engine oils in the laboratory (F. R. Banks, S. Kulik, and W. C. Pike; N. van Os, A. Bos, D. van Namen, and J. de Rooij); 3) apply our present level of technical understanding to results from engine studies (J. du Parquet and A. Godet; M. L. McMillan, R. C. Rosenberg and C. K. Murphy); and 4) question the role of viscosity in engine fuel economy (P. J. Ghirla and R. K. Smith). Finally, in a review of a major colloquium on the subject of the viscometry of multigrade oils held late in 1977, W. J. Bartz summarizes its technical impact.

It is obvious that the subject is not exhausted. Preparations are already underway for a Fifth Symposium to be held in late February 1979 and papers are already being offered. Hopefully, the Fifth Symposium will equal the technical understanding offered by the authors of the papers of this present volume which as the reader will soon determine, is considerable.

The co-organizers of this Fourth Symposium on the Relationship Between Engine Oil Viscosity and Performance wish to gratefully acknowledge the keen insights and helpful suggestions of a number of reviewers of the original manuscripts of these papers. While they must remain anonymous, their efforts were indispensible.

Co-Organizers: T. W. Selby
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