

# Electric Vehicles Fluids: Market Analysis and Opportunities (Consumer Volume)

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Performance requirements for the various fluids consumed in electric vehicles (EVs) are significantly different from those used in conventional Internal Combustion Engine (ICE) vehicles. Besides being different from ICE vehicle fluids, the performance requirements of EV fluids may differ based on the technology used to implement electric drives. The growth of EVs will herald a new lubricants market niche focused on the lubrication needs of EVs.

**Regional Coverage:**

- China
- Europe
- Japan
- United States

## SCOPE

- › Assessment of the current and projected Electric Passenger Vehicles in terms of overall size, technologies used, and key OEMs
- › Analysis of fluid requirements for different EV technologies
- › Assessment of the impact of various EV technologies on EV fluid specification and demand
- › EV maintenance and fluid change practices and the resulting demand for EV fluids
- › Evaluation of installed and announced EV charging infrastructure projects
- › Identification of market opportunities and challenges

**COVERING EMERGING  
DECARBONIZATION TECHNOLOGIES**

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## Introduction

### Executive Summary

An overview of the report findings including a succinct view of the global EV Fluids market

### Country Profiles

- Detailed profiles of four markets (listed in Table 1) are provided, including the following information:

### Enablers For the Electric Vehicle (EV)

#### Transition

- BEV, HEV and PHEV fleet size, sales, production and manufacturing capabilities by Original Equipment Manufacturers (OEMs), and outlook
- State-of-the-art in EV charging infrastructure.
- Regulations and Fiscal policies and other decarbonization efforts promoting EV deployment

### Trends in Electric Passenger Vehicle Technologies

Description of current and emerging EV architectures and trends in HEV, PHEVs, and BEVs

- Analysis of battery technology trends: optimization, energy density, new materials
- Technology adopted by leading EV OEMs, introduction of new models, and their relationship with lubricants suppliers

### Electric Vehicles Fluids Market Analysis

Engines oils, transmission fluids, coolants, and grease markets are profiled, covering the topics listed below:

- Typical/key OEM specifications and Emerging OEMs requirements for dedicated EV Fluids
- Maintenance practices and drain intervals
- Overall demand and splits by factory fill versus service fill and by EV technology
- 2050 market outlook

### Market Appraisal

- Impact of technological evolution in electric vehicle fluids demand
- Implications for lubricants industry participants
- Market opportunities and challenges

**TABLE 1. LIST OF COUNTRIES/REGIONS**

China
Europe (EU-27+United Kingdom, and Norway)
Japan
The United States

## REPORT BENEFITS

This report assists lubricants industry participants in identifying opportunities and challenges within the EV fluids market. It will also serve as an invaluable tool in the strategic planning process. Specifically, the report helps subscribers:

Develop an understanding of the emerging EV technologies that are reshaping the automotive fluids market

Assess current and future demand for various EV fluids based on EV maintenance and fluid change practices

Understand the emerging performance requirements for EV fluids; design and develop products meeting these requirements

## METHODOLOGY

Kline's approach places principal emphasis on primary research techniques to ensure that the foundation of business intelligence and insight is accurate, current, and reliable. Building on our 60-plus years in the business and leveraging our worldwide network of offices, our teams of seasoned professionals draw upon pragmatic industrial and commercial experience to understand and interpret global impacts and local perspectives. Our industry expertise is elevated by technology and systematic data collection processes to deliver more predictive and actionable data and insights.

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