

Corrosion and Protection of Tank Cars in Crude Oil Service

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Document History:

2023-11-21: Approved by AMPP Standards Committee (SC) 17, Rail & Land Transportation

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Foreword

This AMPP technical report describes the current state of protecting the interiors of tank cars transporting crude oil. This report is intended for and will benefit all stakeholders involved in the protection of tank cars transporting crude oil, including large fleet tank car owners, crude oil coating suppliers, tank car coating applicators, and crude oil shippers. The current state of protecting the interiors of tank cars transporting crude oil was developed by conducting surveys of various stakeholders. This report summarizes the survey results.

The first section of the report describes how the surveys were developed. The second section of the report presents the survey results.

AMPP technical reports are intended to convey technical information or state-of-the-art knowledge regarding corrosion. In many cases, they discuss specific applications of corrosion mitigation technology, whether considered successful or not. Statements used to convey this information are factual and are provided to the reader as input and guidance for consideration when applying this technology in the future. However, these statements are not intended to be recommendations for general application of this technology and must not be construed as such.

Scope

This report describes the current state of protecting the interiors of tank cars transporting crude oil.

Rationale

This report has been created to provide the current state of protecting the interiors of tank cars transporting crude oil and is intended for and will benefit all stakeholders involved in the protection of tank cars transporting crude oil. Those stakeholders include large fleet tank car owners, crude oil coating suppliers, tank car coating applicators, and crude oil shippers.

Background Information

The first successful oil production was established in Oil Springs, Ontario, Canada (1858). In Pennsylvania, the early European explorers along with Native Americans in the 1850s found natural kerosene from crude in supplies to support