Rail Energy Transportation Advisory Committee

STB RETAC Railcar Update – Oct 2022

The information in this presentation and the accompanying views and analysis are based on publicly-available industry sources and do not necessarily represent the proprietary information, analysis, or outlook of The Greenbrier Companies.

Increase in Coal Demand Results in Short-Term Demand for Coal Cars





Renewal Energy Impact on Covered Hoppers

Farm Products Loadings



Grain Car Deliveries



Grain / Fertilizer Railcars in Storage



Source: ARCI, AAR

Industry Impacts on Tank Cars

Tank Car Energy Loadings









Crude Oil / Ethanol Cars in Storage



Shop Constraints = Plan Ahead







Labor Recruitment and Retention

- Shops are having difficulty rehiring post-covid and wages skyrocketing
- Federal and industry training hour requirements for tank car work has increased the complexity of shops to maintain required certifications of shopfloor personnel

Material Shortages

- Long lead times on many components.
- Suppliers are unable to provide estimated delivery times. e.g. EOCC units

Higher Costs

- Unpredictable fuel costs make pricing difficult
- Higher Switching Costs

Tank Qualification Requirements over the next five years will further stretch shop capacity

US & Canada

2023	Class 111 & Non-Jacketed CPC-1232	7,458 ¹
2025	Jacketed CPC-1232	1,391
2025	Other Flammable Liquids	33,697 ²

¹ Ethanol transported in jacketed CPC-1232 tank cars are not authorized after 5/1/2025

² In the United States, flammable liquids, Packing Groups II and III, transported in Class 111 tank cars are not authorized after 5/1/2029.

- Based on 2nd Quarter 2022 numbers, the number of tank cars that require replacement to DOT-117J, or retrofitted to DOT-117R, or removed from flammable liquid service by Service/Date
- 42,616 tank cars require replacement, retrofitting, or removal from flammable liquid service in the North American fleet based on commodity movements in Q2 2022

Railroad Inefficiencies Impact on Production & Repair Shops



 Delays getting cars into and out of repair shops is increasing dwell times



- Border crossing congestion
 - Re-routes
 - Misrouted cars
 - Additional costs