

Case Study: Railcar Manway - GYLON® 3545 TUFF-RAIL®



INDUSTRY

Pulp & Paper

CUSTOMER

South Western Paper Company, USA

BACKGROUND

Customer was having leakage and service life issues with their nitrile (NBR) rubber nozzle style gaskets.

CHALLENGES FACED

Customer has historically used a nitrile (NBR) manway style gasket mainly due to cost. During plant level loading and unloading of the tank cars, it became obvious that the elastomeric gasket was the root of the cause and was not sealing properly. The gasket was being deformed during installation and splitting due to the demands of the narrow seating area of the nozzle and the impact of the heavy manway lid.

OPERATING CONDITIONS

Size - TRN-1 & UTC-1

Temperature - Ambient

Media - Tall oil

Pressure - 0 psi

SOLUTION AND BENEFITS

To eliminate the chances of splitting during installation, Garlock recommended switching to our 3545 TUFF-RAIL® manway lid style gasket versus the nozzle style configuration. TUFF-RAIL® 3545 fits firmly into the groove of the lid, insuring the gasket holds its position during installation and the opening and closing of the manway. Knowing that the incumbent elastomeric gasket was being crushed by the narrow seating area of the nozzle, we also eliminated those concerns by recommending our TUFF-RAIL® 3545 due to its pure PTFE construction and rigid center layer. TUFF-RAIL® 3504 can offer substantially more crush resistance.

For more information, please visit:
<http://www.garlock.com>

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