



September 30, 2022  
NS United Kaiun Kaisha, Ltd.

## NSU Conducts the Second Biofuel Trial on a Rail Carrier

NS United Kaiun Kaisha, Ltd. will conduct the second trial use of biodiesel-blended marine fuel (Biofuel) on a rail carrier “PACIFIC SPIKE”, owned, operated, and managed by our group. In September 2022, as the first case in Japan, the vessel was supplied with Biofuel for this trial by Toyota Tsusho Petroleum Pte. Ltd. at the port of Nagoya. The vessel is dedicated to transport steel rails from a mill operated by Nippon Steel Corporation to North America under the charter of Sumitomo Corporation, and the trial will be conducted in the Pacific Ocean, on her way to discharging ports. We carried out the first trial in March 2022 by Very Large Ore Carrier under our operation, on her way to South Africa, with the cooperation of Nippon Steel Corporation as the charterer.

The biodiesel used in the trial: FAME (Fatty acid methyl esters) is made from used cooking oil collected and refined in Japan, and is expected to reduce CO<sub>2</sub> emission throughout the lifecycle compared with conventional fossil fuels, since it recycles oil for disposal. The biodiesel is certified for its sustainability & traceability by International Sustainability & Carbon Certification (ISCC).

Among other alternative fuels, Biofuel is highly versatile low carbon fuel since it enables existing marine diesel engines and other existing bunkering facilities to be utilized without modifications. By adopting multiple solutions including alternative fuels and eco-friendly technologies, we will continue to work on reduction of CO<sub>2</sub> emission in marine transportation in the supply chain, and contribute to develop a sustainable society.

### ◆ Vessel's particulars

Name : PACIFIC SPIKE  
Flag : Panama  
Built : August 2014  
Deadweight : 24,041 MT  
LOA : 189.91 M  
Beam : 28.20 M  
Ship Builder : Shin Kurushima Dockyard Co., Ltd.



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