



marine lubricants

# positive impact of chevron's taro<sup>®</sup> ultra advanced 40 on the MV carlos fischer's operations

**chevron's taro ultra advanced 40 was implemented for use on fruit juice  
tanker MV carlos fischer, demonstrating our dedication to providing  
strategic, customer-centric solutions in the maritime industry**

Chevron's focus on innovation and operational reliability was recently exemplified in the successful use of Taro Ultra Advanced 40 in the operations of the MV CARLOS FISCHER. With a capacity to transport 37,000 tons of fresh and concentrated orange juice in bulk tanks, this vessel is one of the biggest fruit juice transiting carrier ships in the world. Owned by Citrosuco Europe NV, it is part of a six-vessel fleet.

## Challenge and Transition

The vessel was built in 2002 and equipped with a WinGD-Sulzer 7 RTA 84 C-U engine. This engine, considered to be older in design, requires a relatively high cylinder oil feed rate (1 – 1.2 g/kWh) for mechanical reasons. Initially lubricated with Taro Ultra 70, the vessel was changed to BN 40 in 2020 to achieve

the lower sulphur content of IMO 2020 compliant VLFSO. The less favourable tribological conditions and high liner service hours called for improved detergency, but continuous application of BN 100 – Taro Ultra 100 was unfortunately not an option due to the required elevated cylinder oil feed rate. Taro Ultra Advanced 40 offered the ultimate solution: providing the required superior cleaning ability at a balanced alkalinity and oil ash level.

## Results

When switching to Taro Ultra Advanced 40, piston cleanliness, stability and maintenance was possible using a single cylinder oil, despite less favourable tribological conditions and high liner service hours.

The Chief Engineer's feedback and designated scavenge port inspection results were positive, confirming Taro Ultra Advanced 40 provides an adequate and long-term solution for the specific conditions of the tanker.



**“the proactive approach and ongoing guidance  
from chevron have been instrumental in  
ensuring effective operations”**

**Mr. Carlos De Raedt**, Fleet Manager Citrosuco Europe NV

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