

Biofuel Test on Vessel Main Engine

Eastern Pacific Shipping



FAST FACTS All About EPS





THE RATIONALE

The driver behind the test and our goals



RATIONALE

EPS is committed towards decarbonisation and environmental preservation investing in alternative marine fuels

HOW

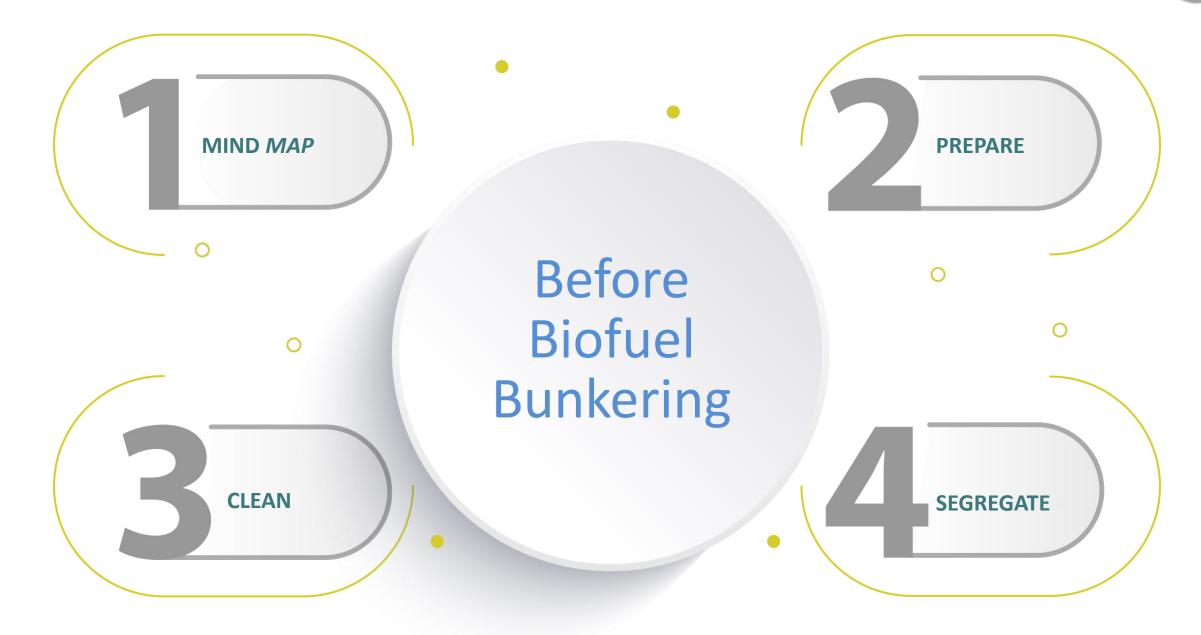
We partnered with GoodFuels Marine to conduct a full test on engines with biofuel made from 100% sustainable waste and residue streams

RESULTS

The results of the trial showed ZERO CO₂ emissions while using biofuel on main engines

PREPARATION & PROCEDURES





APPROVALS & GUIDANCE

EASTERN PACIFIC SHIPPING

For the usage of biofuels



COMPARISON OF FUELS

General Specifications

VLSFO

- ✓ Density @ 15°C
- ✓ Viscosity @ 50°C
- ✓ Sulphur (Max.)
- ✓ Pour point
- ✓ Calorific Value
- : 98.3 cST : 0.5 % (m/m) : 18°C
 - : 42.1 MJ/kg

 $:940.3 \text{ kg/m}^3$

Biofuel

- ✓ Density @ 15°C
 ✓ Viscosity @ 50°C
 ✓ Sulphur
 ✓ Pour point
 - Calorific Value

Specifications in Actual Test Environment

VLSFO

- MCR Power: 8580 KW
- Rpm: 108.1
- Speed: 12.5 Knots
- Slip: 15%
- Load: 58.8%
- Power: 5045 KW
- Good weather Daily FOC: 22 MT/day

Biofuel

- MCR Power: 8580 KW
- Rpm: 108.2
- Speed: 12.5 knots
- Slip: 15 ~19 %
- Load: 58.4 %
- Power: 5015 KW
- Good weather Daily FOC: 24.4 MT/day





The Calorific Value of biofuel is up to 10% lower when compared with VLSFO

ZERO EMISSIONS

Tank



BIOFUEL

ZERO Emissions

As certified by



Exhaust

A DEEPER DIVE

Vessel DWT	47,377 MT
Cargo Carried	41,076 MT
GHG Rating	А



All impact reports for CO2 emissions are certified by the International Sustainability & Carbon Certification (ISCC)

Biofuel

AER 5.09g CO₂ /t Nm

VLSFO

EEOI 5.88g CO₂/t Nm **AER** 0.0g CO₂/t Nm

EEOI 0.0g CO₂/t Nm

EASTERN PACIFIC SHIPPING

CONCLUSIONS

Benefits of biofuels

