Yunic 800Eco

Suppression of sludge and reduction of fuel consumption and CO_2 of VLSFO

Yunic 800Eco is a fuel oil additive for VLSFO (Fuel oil with sulfur content of 0.50% or less) that suppresses the generation of sludge due to poor compatibility and reduce CO_2 and fuel consumption by improving combustion. It contributes preventing sludge trouble, fuel oil reduction formations and environmental protection.

Benefits

VLSFO may suppress sludge (caused by asphaltene and paraffin (wax)) if the compatibility is poor. As with high sulfur fuel oil, the generated sludge needs to be suppressed more strongly to prevent problems, such as sludge deposition in FO tank, FO strainer clogging and purifier malfunction etc.

There is also a necessity for more efficient use of fuel oil due to the global environmental loading reduction.

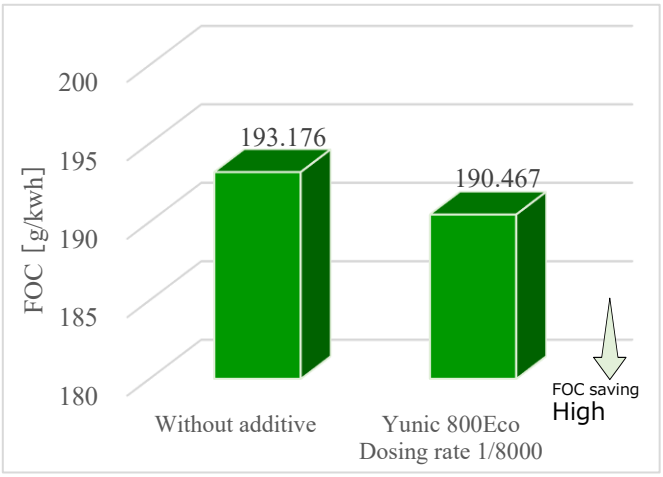
Yunic 800Eco not only effectively suppresses sludge generated from VLSFO to prevent sludge troubles due to deterioration of stability and compatibility, but also contributes to CO_2 and fuel efficiency reduction by improving combustion at the same time.

- **1.0% or more of FOC reduction effect**(*1) is comfirmed bydemonstration experiment(*2) of Yunic 800 Eco.
- Furthermore, the **sludge suppression performance has been enhanced** (*3) compared to the conventional product Yunic 800VLS.

(*1) Although it depends on the properties of VLSFO and its ignitability/combustibility.

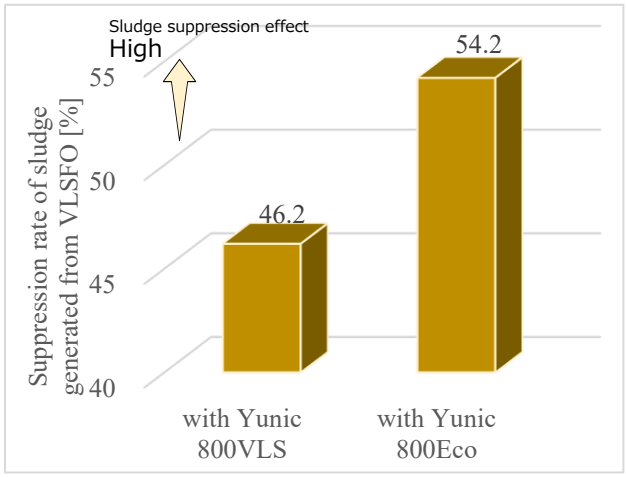
(*2) Actual test by the onshore experimental marine two-stroke engine

(*3) Approx. 20% improvement compared to Yunic 800VLS (lab evaluation with actual VLSFO)



Test results by the onshore experimental marine two-stroke engine

(FOC reduction effect: up to about 1.4%)



Sludge suppression effect using VLSFO (average of 50 or more cases)

(Improved by about 20% compared to conventional products)

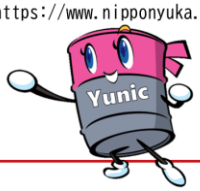
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2023.08

Direction for Use

The standard dosing rate for regular use is 1/8000 of VLSFO.

It can be effectively mixed with VLSFO by adding it to the FO Storage tank before bunkering in advance.

Adjust the dosing rate between 1/5000~1/10000 depending on the condition of the FO strainer and purifier.

If the stability or compatibility of VLSFO is found to be poor during bunkering or switching, please increase the dosing rate to 1/2000.

※Standard dosing quantity of Yunic 800Eco for the amount of bunkering is as follows.

Bunkering amount 【MT】	**500**	**1,000**	**2,000**	**3,000**	**4,000**	**5,000**	**6,000**	**7,000**
Yunic 800Eco 【liter】	**62.5**	**125**	**250**	**375**	**500**	**625**	**750**	**875**

Cautions for Use

○ Flammable liquid, keep away from open flames.

○ Wear respirator, goggles and resistant rubber gloves.

○ First-aid procedure:

- If splashed into eyes, flush with plenty of fresh clean water more than 15 minutes.
- In case of skin contact, wash with soap and fresh water and apply skin cream.

Cautions for Storage

○ Keep away from open flames.

○ Store in cool and dark space.

- Avoid storage at a low temperature (below 0°C) and high temperature of 40 °C or higher.

Characteristics

○ Appearance : Dark brown transparent liquid

○ Viscosity : Approx. 20 cSt @50°C

○ Density : 0.99 g/cm^3@15°C

○ Flash point : 98 °C(PM)

○ Main components : Surfactant, Organic metal compound, Petroleum solvent

Container

	Net Wight, kg	Size, (W x D x H, cm)
○ 200 Litter drum	219.6	ϕ 58.5 x 89
○ 18 Litter can	19.0	23.8 x 23.8 x 35





2023.08