Wax Breaker

Cold flow improver for marine gas oil (MGO) and marine diesel oil (MDO)

"Wax Breaker" is a fuel oil additive that improves cold flow properties (CFPP and PP) of MGO and MDO.
By improving the cold flow properties, it is effective to suppress the solidification of MGO and MDO in the fuel oil tank at low temperature and smooth transfer of those to the engine room.

Advantages

In a ship sailing from a warm to a cold region or in winter season, the temperature of the inside of the fuel oil tank becomes low, so that MGO and MDO having poor cold flow properties (See picture below) solidifies and there is a problem that it can not be transferred by the fuel oil pump.

Wax Breaker is cold flow improver type fuel oil additive for the prevention of fuel oil troubles at low temperature (such as solidified in fuel oil tanks and the piping, and blockage in a strainer).
Characteristics and effects are as follows.

● **Improvement effect on cold flow properties (cold flow plugging point; CFPP and pour point; PP)**

Wax Breaker improves cold flow properties (CFPP & PP) of various MGO and MDO well. (See below figure)
The standard dosing rate is 1/2000 addition, but depending on the case, addition of Wax Breaker at recommended dosing rate 1/2000 ~ 1/500 can expect improvement of CFPP.



MGO with poor cold flow property.
(High pour point MGO)



Add Wax Breaker before the above-referenced high PP MGO solidifies.

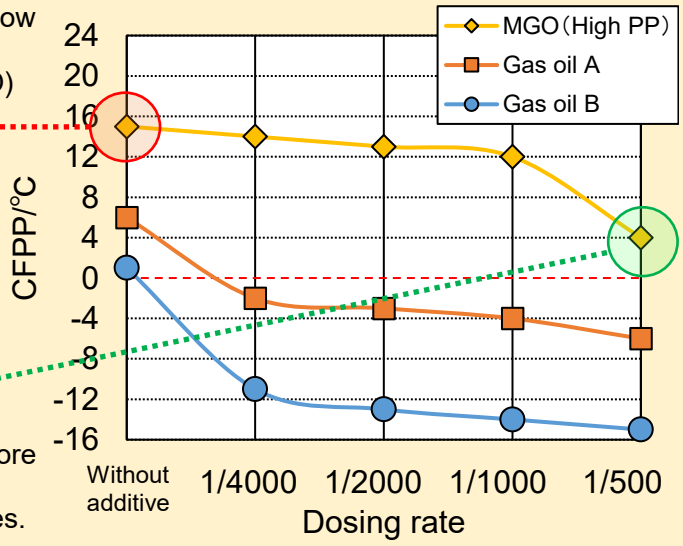


Figure Relationship between cold flow plugging point; CFPP of fuel oil and additive dosing rate.

(Please read the next page.)

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Direction for Use

● Wax Breaker can improve cold folw properties (cold flow plugging point; CFPP and pour point; PP) of various MGO and MDO by adding standard dosing rate 1/2000.

※ Depending on the type of fuel oil, add 1/2000 - 1/500 (recommended dosing rate) of Wax Breaker to the oil.

● Wax breaker should be added when liquid state is sufficiently fluid (before the fuel oil solidifies) or bunkering.

※ Wax Breaker has no effect to dissolve solidified fuel oil again. Therefore, when dosing after bunkering MGO or MDO please carry out before fuel oil solidifies at low temperature.

● Wax Breaker has good compatibility with any fuel oil such as MGO and MDO, furthermore dosing into the empty tank helps good mixture of Wax Breaker and fuel oil.

Cautions for Use

● Flammable liquid, keep away from open flames.

● Wear respirator, goggles and resistant rubber gloves.

● First-aid procedure:

・If splashed into eyes, flash with plenty clean water longer than 15 minutes.

・In case of skin contact, wash with soap and fresh water and apply skin cream.

・It is harmful if swallowed. Don't put it into a mouth.

・If inhaled vapor, move to fresh air area and warm body.

※ Submit to medical treatment according to the condition.

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 50 °C or higher.

・There is a risk of freezing, when stored at low temperature. If it is frozen, please warmed to room temperature Wax Breaker before use.

Characteristics

● Appearance : Light yellow liquid (transparent ~ cloudy)

● Viscosity : 20～30 mm^2/s @50°C

● Density : 890～920 kg/m^3@15°C

● Flash point : 66°C (PM)

● Main components : Surfactants, polymeric materials, petroleum solvents

Container

	Wight,kg	Size, (W x D x H,cm)
● 200 Litter drum	201.5	ϕ 58.5 x 89
● 18 Litter can	17.4	23.8 x 23.8 x 35





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