

DieselPower CFPP Managing your fuel in cold weather

Part of Wilhelmsen Maritime Services a Wilh. Wilelmsen group company



DieselPower CFPP can help you to improve operability of your fuel in cold climates. This presentation will show you how





What does the different temperatures mean?

Cloud Point (CP)

The temperature where the wax particles of the fuel starts to come out of the solution. The appearance of the fuel becomes hazy





What does the different temperatures mean?

Cold Filter Plugging Point (CFPP)

This is the temperature where the fuel stops flowing through a standard fuel filter. Reaching this temperature will cause handling problems with the fuel through the fuel system.





What does the different temperatures mean?

Pour Point (PP)

This is the temperature where the fuel stops flowing and becomes solid



OPTIMISING PERFORMANCE



Agglomeration of wax particles - Untreated



As the temperature is reduced small wax nuclei's are formed. These nuclei's encourage further crystallisation and larger plate like wax crystals are formed. These larger crystals cannot pass through filters resulting in engine stoppage.



Agglomeration of wax particles - Treated



The precipitated wax particles of a treated fuel are much smaller in size compared to an untreated fuel. The wax particles that do form in a treated fuel are smaller and will not clog the fuel filters at the temperature where an untreated fuel will start to clog filters.



Wax Anti Settling Additive - WASA



Fuel treated with CFPP additive. Sediment formation from wax crystals Fuel treated with CFPP additive and WASA. No sediment formation due to dispersed wax crystals Untreated fuel solid at the same temperature



Why Cold Filter Plugging Point is more important than Pour Point



When a fuel reaches the Pour Point it means the fuel is solid and will not flow anymore. This is of very little use to a distillate fuel user as he is looking for the point where the fuel starts to be a problem in the filters. The CFPP is the measure he should be using as it indicates the temperature when the filters will have problems





CFPP measurement on distillate fuel

Winter Diesel	CFPP, °C
No treatment, clear and bright at	-29
1000 ppm	-36
2000 ppm	-38
3300 ppm	-41



Dosage	0 ppm	1000 ppm	2000 ppm	3300 ppm	4000 ppm
DieselPower CFPP	-9°C	-20	-26	-28	-28
Competitor Product	-9	-9	-10	-12	-15

Product performance comparison





Unitor DieselPower CFPP

The DieselPower CFPP is formulated to help fuels in cold climates. The treatment will improve the cold flow properties of the fuel. The treatment contains a mix of cold flow improvers together with a wax anti settling additive to make sure no sediment is formed.

- O Improves the cold flow properties of a distillate fuel
- O Delays the onset of paraffin crystallization to improve cold flow properties
- O Enables you to handle the fuel at lower temperatures
- O Adds safety in handling of the fuel by reducing the pour point of the fuel







Our Unitor DieselPower range

A newly-formulated range that responds to industry challenges regarding distillate fuels

DieselPower Enhancer	A multi-purpose treatment for securing storage of distillate fuels. It will stop fuel deterioration through aging, as well as gum and sludge formation. In addition, it cleans up deposits formed on the injection nozzles and protect the fuel system from corrosion
DieselPower Lubricity	This lubricity improver has gone though all the testing to make sure it gives you the fuel performance you need. This is a modern lubricity improver for low sulphur distillates
DieselPower MAR 71	This biocide has been especially formulated to manage microbial contamination in diesel fuel systems. The product quickly penetrates through the fuel to make sure all colonies are found and eliminated
DieselPower CFPP	This product will improve the cold flow properties of a distillate fuel as well as reduce wax sedimentation.







We know fuel

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