

INTRODUCTION

AMERGY XLS low-sulfur fuel conditioner is a unique blend of dispersants, surfactants, detergents and lubricity additives for minimizing the effects of fuel instability and wear of metal-to-metal contact surfaces.

Long-term storage of distillate fuels often results in fuel deposit formation due to instability, leading to storage and handling problems. AMERGY XLS fuel conditioner is formulated with dispersants and surfactants to maintain sediment and asphaltenes in suspension during storage, thus preventing fuel sludge formation and filter fouling. AMERGY XLS also stabilizes low sulfur fuel blends as well as minimize sludge formation during fuel switch-over.

Low-sulfur fuels lack the dry lubrication properties that reduce metal-to-metal contact of fuel handling and engine components. Therefore, frequent or continuous use of low-sulfur distillate fuels can result in accelerated wear to fuel pumps, injectors and other system components. AMERGY XLS fuel conditioner contains a highly effective fuel lubricant that minimizes metal-to-metal contact and extends the life of fuel system components when low-sulfur fuels are used for combustion.

Maintaining a proper fuel injection spray pattern is essential for optimized combustion in a diesel engine. Carbonized deposits formed on fuel injector tips can greatly affect both the spray pattern and fuel droplet size, leading to poor combustion, smoke and deposits. The detergents in AMERGY XLS fuel conditioner maintain injector nozzle tips clean and free from sticking, thereby promoting improved combustion.

FEATURES

- **Effective blend of self-dispersing solvents and conditioners**
- **Essential lubricity additives to reduce metal-to-metal contact surface wear and to prevent premature wear**
- **Contains detergent additives**
- **Completely soluble in fuel which prevents removal during centrifuge operation**
- **Worldwide availability**

INTRODUCTION

It is recommended that fuel deliveries are representatively sampled and analyzed to monitor overall fuel quality and to determine levels of contamination. Consult your local Drew Marine representative for further discussion on fuel samplers and fuel analysis services.

When used with each fuel delivery, the dosage rate will vary depending on the grade of fuel.

1. For low sulfur distillate fuel AMERGY XLS fuel conditioner should be dosed at 1/5000 (1 liter for 5 tons) of low sulfur fuel.
2. For low sulfur residual fuel AMERGY XLS fuel conditioner should be dosed at 1/3000 (1 liter for 3 tons) of low sulfur fuel.

It is recommended that the product be metered continuously into the fuel. This is best accomplished by the use of a metering system (e.g., DREW™ Beta Metering System). Dosing in this manner assures proper mixing, dispersion, and sufficient quantities of AMERGY® XLS low sulfur fuel conditioner when needed. It is usually recommended that the product be dosed to the low-pressure side of the fuel treatment system, but the actual dosing location may vary depending on the engine layout and design. The diagram below outlines typical treatment locations.

Alternatively AMERGY XLS low sulfur fuel conditioner can be added to low sulfur fuel tanks by directly adding it to respective tanks prior to fuel delivery (e.g. via fuel tank sounding tubes/vents). This will ensure that AMERGY XLS fuel conditioner is properly

BENEFITS

- **Restores lubricity to meet fuel specification and engine requirements**
- **Minimize the effects of fuel switch-over incompatibility**
- **Maintains the fuel as a homogeneous mixture to reduce tank cleaning expenses**
- **Maintains tanks, heaters, & filters free from sludge and fuel deposits**
- **Extends the life of fuel pumps and injectors**
- **Maintains clean fuel injectors to improve fuel injection spray pattern to promote complete combustion**

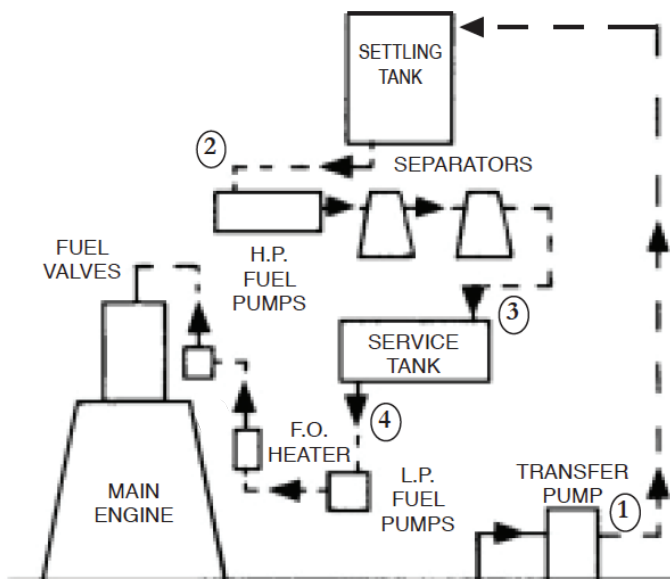


Contact your Drew Marine representative for more information

mixed and dispersed throughout the fuel. If not used on a regular basis, an alternate schedule can consist of dosing only when the distillate fuel fails lubricity testing (e.g., HFRR wear scar dia. > 520 µm) and/or when a problem from fuel incompatibility/instability occurs. Use the following table for guidance. Stability/compatibility may be quickly determined using the FO COMPATIBILITY TESTER, available from Drew Marine. (Refer to the FO COMPATIBILITY TESTER product data sheet for technical details and ordering information about that test kit.)

Lubricity HFRR wsd	Stability/Compatibility Spot Number	Dosage
< 520µm	1	Not required
< 520µm	2 or 3	1:5000
< 520µm	4 or 5	1:3000
> 520µm	1, 2, 3, 4, or 5	1:3000

FUEL STORAGE AND SERVICE SCHEMATIC



Recommended injection points for AMERGY XLS low sulphur fuel conditioner in typical main engine fuel arrangement:



BENEFITS CONTINUED

- Does not require elaborate dosing equipment
- No storage stability problems for fuels in extended storage

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown liquid
Odor:	Aromatic
Density @ 25°C:	0.95 3/cm3
Flash Point:	77.8°C min.
Pour Point:	-51.1°C
Solubility:	Soluble in all proportions in fuel

NOTE: Always wear the appropriate personal protective equipment when using this product.

PACKAGING

AMERGY® XLS low-sulfur fuel conditioner is available in 25-liter (PCN 1401405) containers.

IMPORTANT INFORMATION

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees.

Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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Drew Marine®

**100 South Jefferson Road
Whippany, NJ 07981 USA
1-973-526-5700
Drew-Marine.com**

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