



**PREMIER**  
FUEL SOLUTIONS LIMITED

**V25**

**ADVANCED FUEL TREATMENT**

# **FUEL TREATMENT FOR WORKING TUGS**



**POWERED BY:**  
**ADERCO**  
Manufactured in USA

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Certified  
  
Corporation

# DON'T WAIT FOR A FUEL PROBLEM TO MANAGE YOUR FUEL.

Your tugs are working assets, expected to perform whenever the next job comes in. Whether they're operating under demanding loads, moving between assignments or standing by in port, reliability matters. Looking after the fuel they depend on is an important part of keeping your vessels available, protecting your investment and avoiding fuel-related issues getting in the way of the operation.

Fuel management doesn't need to mean multiple additives or waiting until a problem appears. V25 brings multiple fuel-management functions together in one treatment that stays with the fuel from bunkering through to combustion. It can be used across your tugs' fuel systems and incorporated into routine bunkering, providing a consistent, preventative approach whether you're operating a single vessel or looking to standardise fuel treatment across an entire fleet.





#### **PREVENTS DIESEL BUG**

Helps control microbial contamination in fuel, reducing the risk of sludge, filter blockages and fuel-system issues caused by diesel bug.



#### **IMPROVES LUBRICITY**

Restores and enhances fuel lubricity, helping to reduce friction and wear within critical fuel-injection components for smoother, more reliable engine performance.



#### **WATER CONTROL**

Helps manage water contamination within the fuel system, supporting cleaner fuel and reducing the risk of fuel-related issues.



#### **IMPROVES FUEL STABILITY**

Helps maintain fuel quality during storage, reducing fuel degradation and the formation of deposits and sludge.



#### **ENHANCES PERFORMANCE**

Supports cleaner, more efficient combustion to help maintain smooth, reliable engine performance and reduce visible exhaust smoke.

**Backed by more than 40 years of marine fuel-treatment experience, V25 provides a highly concentrated, non-hazardous solution for maintaining fuel quality and supporting engine performance.**

**V25 provides continuous fuel conditioning from tank to combustion, helping manage water, microbial contamination, sludge and deposits while improving fuel stability and lubricity. It also supports cleaner, more efficient combustion, helping reduce smoke, particulate emissions and fuel-related deposits.**

## **BENEFITS ACROSS THE OPERATION**

### **OWNERS**

**Reduced risk of fuel-related downtime**

**Helps protect valuable engines & fuel equipment**

**Fewer fuel-related maintenance problems**

**Supports improved fuel efficiency**

**One treatment simplifies onboard fuel management**

**Non-hazardous & easier to handle onboard**

### **ENGINEERS**

**Helps control diesel bug & contamination**

**Helps manage water, sludge & deposits**

**Improved fuel lubricity**

**Helps protect pumps & injectors**

**Supports cleaner fuel systems & filters**

**Helps support cleaner combustion**

### **CLIENTS**

**Greater vessel reliability**

**Reduced risk of operational delays**

**Tug ready when required**

**More dependable service**

**Supports cleaner operation**

**Reduced smoke & particulate emissions**

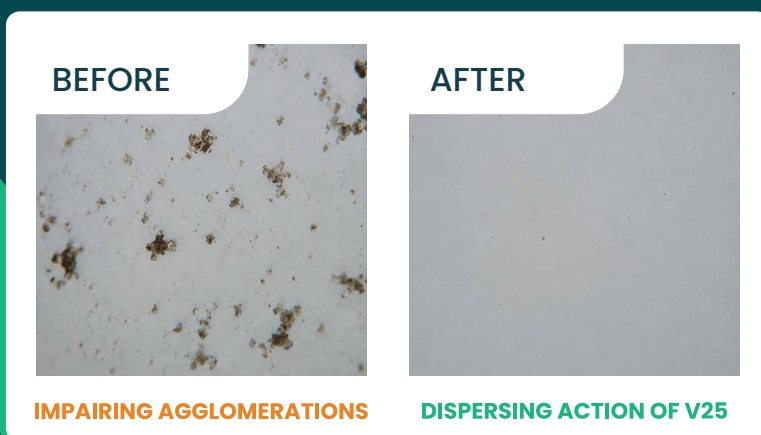
# BECAUSE WHEN A TUG ISN'T RUNNING, IT ISN'T WORKING.



V25 takes a preventative approach to fuel management, working continuously within the fuel rather than waiting for contamination or fuel quality issues to become an operational problem.

Designed for use from bunkering through to combustion, V25 helps condition the fuel, manage water and microbial contamination, disperse sludge and deposits, improve lubricity and support a cleaner, more complete burn.

Unlike conventional biocide-led treatments, V25 is non-hazardous, ashless and metal-free, providing a single treatment that can become part of your vessel's routine fuel management programme.



## ONE SMALL ADDITION. A BIG DIFFERENCE.

### 1 Litre Treats up to 10,000 Litres of Fuel

## KEEP YOUR TUG READY FOR THE NEXT JOB

V25 is highly concentrated, making it practical even for the larger fuel volumes carried across commercial tug operations. Just 1 litre treats 10,000 litres of fuel, meaning relatively little product is required at each bunkering. That means less product to purchase, handle and store onboard, while making it straightforward to calculate treatment against each fuel uplift and incorporate V25 into your existing bunkering procedure.

# V25

## V25 vs Conventional Biocide

A DIFFERENT APPROACH TO FUEL MANAGEMENT

CLEANER FUEL

RELIABLE OPERATION

LOWER RISK

GREATER EFFICIENCY

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### FEATURE

### CONVENTIONAL BIOCIDES

### V25 ADVANCED FUEL MANAGEMENT



Primary Purpose

Kill or control microorganisms  
(Diesel bug)

Ongoing fuel management -  
controls microorganisms and  
maintains fuel quality



Routine preventative use

Often used routinely, but primarily  
designed for active or potential  
microbial contamination

Designed for continuous,  
preventative use as part of good fuel  
management practice



Fuel stability

Not a primary function

Helps maintain fuel stability during  
storage and extended periods of  
inactivity



Water & sludge  
management

Not a primary function

Disperses water and helps keep  
sludge and deposits in suspension  
for removal by filters



Injector and combustion  
cleanliness

Not a primary function

Helps keep injectors and combustion  
chambers cleaner, supporting  
efficient engine operation



Lubricity improvement

Not a primary function  
Additional products required

Improves fuel lubricity, helping to  
protect fuel system components



Emissions & engine  
performance

Not a primary function

Supports cleaner combustion and  
more consistent engine performance



Treatment rate

Product dependent  
e.g. typically 1:1,000 - 1:2,000

1:10,000 (Standard treatment rate)



Storage & Handling

Often classified as hazardous (e.g.  
hazardous to aquatic life, mutagenic,  
carcinogenic and potentially fatal)

Non hazardous, vegetable based -  
simple dosing, safer storage and  
handling on board



Engine OEM acceptance

Product specific

Supported by letters of No objection  
from leading engine manufacturers:  
Caterpillar, Man and Wärtsilä

### CONVENTIONAL BIOCIDES

A REACTIVE APPROACH

Conventional biocides are designed to kill or control microorganisms. They are an important tool when an active diesel bug problem exists, but they do not address the wider fuel management challenges that can affect stored and in-service fuel.

### V25

A MORE COMPLETE SOLUTION

V25 is designed for continuous use to maintain fuel quality, control microbial contamination and deliver additional benefits, including fuel stability, water and sludge management, improved lubricity and cleaner combustion.

# FAQ's

## **WE ALREADY USE A BIOCIDES. WHY WOULD WE NEED V25?**

V25 takes a different approach. Rather than relying on periodic biocide treatment once microbial contamination becomes a concern, V25 is designed for continuous preventative fuel management, helping manage water, contamination and sludge while also improving lubricity and supporting cleaner combustion.

## **OUR TUGS ARE CONSTANTLY WORKING. IS DIESEL BUG REALLY A CONCERN?**

It can be. High utilisation doesn't remove the risk of water or microbial contamination, particularly where fuel is stored across multiple tanks, fuel quality varies between bunkers or vessels spend periods on standby.

## **WILL WE NEED TO TAKE A TUG OUT OF SERVICE TO TREAT IT?**

No planned treatment downtime is required. V25 can be added directly to the fuel, ideally during bunkering, and works as the vessel continues operating.

## **DOES IT CHEMICALLY ALTER OUR FUEL?**

No. V25 works through physical fuel-conditioning mechanisms rather than chemically changing the specification of the fuel.

## **WHAT ABOUT PUMPS AND INJECTORS?**

V25 improves fuel lubricity, providing additional protection for fuel pumps and injection equipment – particularly relevant with modern lower-sulphur distillate fuels.

## **DO WE NEED DIFFERENT PRODUCTS FOR DIFFERENT ENGINES?**

V25 provides one treatment across the vessel's fuel systems, including main engines and generators, simplifying onboard fuel management.

## **HOW MUCH DO WE ACTUALLY NEED?**

V25 is highly concentrated. Standard treatment is just 1 litre per 10,000 litres of fuel, with higher dosing used where fuel condition or contamination requires it.

## **IS IT HAZARDOUS TO KEEP ONBOARD?**

V25 is non-hazardous, ashless and metal-free, making storage and handling considerably simpler than many conventional fuel-treatment products.

## **HOW DO WE KNOW IT WORKS?**

V25 is backed by decades of marine application, OEM Letters of No Objection and independent testing. Premier Fuel Solutions can also work with operators to establish a monitored vessel trial before considering wider fleet adoption.

|                                  | Traditional Diesel |     |
|----------------------------------|--------------------|-----|
|                                  | Bug Treatment      | V25 |
| <b>Fuel Performance</b>          |                    |     |
| Controls Microbial Contamination | ✓                  | ✓   |
| Improves Combustion Efficiency   | —                  | ✓   |
| Improves Fuel Lubricity          | —                  | ✓   |
| Helps Reduce Fuel Deposits       | —                  | ✓   |
| Optimises Fuel Quality           | —                  | ✓   |

### Safety and Handling

| Shelf Life                   | 1 Year                                                                              | 2 Years                                                                              |
|------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Non-Hazardous                | ✗                                                                                   | ✓                                                                                    |
| 100% Vegetal-Organic Formula | ✗                                                                                   | ✓                                                                                    |
| Contains Biocides            | ✓                                                                                   | ✗                                                                                    |
| Special Storage Precautions  | ✓                                                                                   | ✗                                                                                    |
| Hazard Warning Labels        |  |  |

### Overall Value

|                                       |   |   |
|---------------------------------------|---|---|
| Solves Diesel Bug Issues              | ✓ | ✓ |
| Improves Overall Fuel Quality         | ✗ | ✓ |
| Multiple Fuel System Benefits         | ✗ | ✓ |
| All-in-one Fuel Conditioning Solution | ✗ | ✓ |



**CATERPILLAR**

**WÄRTSILÄ**



**ADERCO TECHNOLOGY IS RECOGNISED BY LEADING MANUFACTURERS THROUGH LETTERS OF NO OBJECTION**



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