GAME-CHANGING SOLUTIONS FOR THE HEAVY LIFTING INDUSTRY

A&S INTERNATIONAL

WIRE ROPE CLEANING & LUBRICATION

INCREASED FUEL EFFICIENCIES

MAINTENANCE LUBRICANTS & CHEMICALS

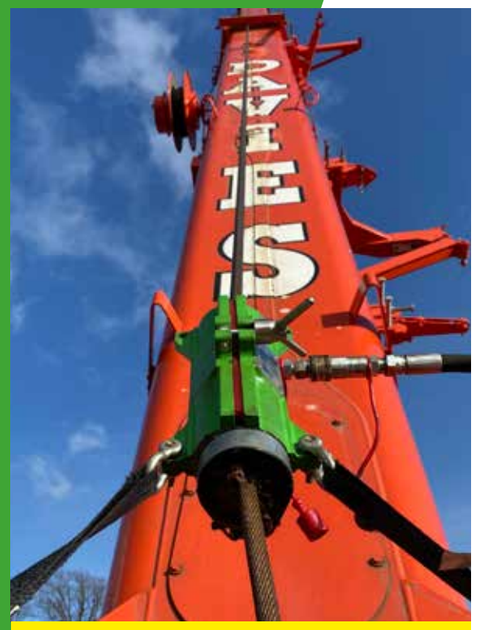
OIL SPILL & WASTE MANAGEMENT

INSTANT REPAIR SYSTEM FOR HYDRAULIC HOSES

Specialist Products for Heavy Lifting : **Committed to Sustainability**

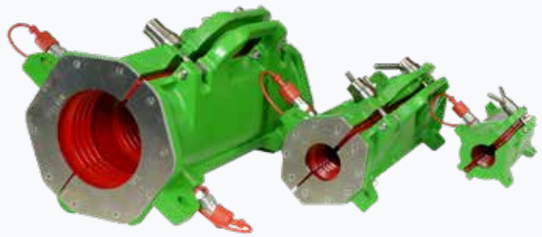
“10/10. To make any part of our job more efficient is a bonus. The Viper Mini certainly ticks all the boxes.”

Mike Roberts – Operations Manager – OM Heavy Lift



Viper WRL

Viper® WIRE ROPE LUBRICATOR



WIRE ROPE LUBRICATORS

Fast, effective and the most environmentally responsible method for cleaning and lubrication of wire ropes

Increase wire rope life by up to **300%**

Reduce labour required to lubricate wire ropes by up to **90%**

Viper Wire Rope Lubricator

Viper is the #1 world leading product in wire rope lubrication, delivering significant benefits extensively to the heavy lifting industry as well as marine, mining, oil & gas, construction, bridges and anywhere that wire rope maintenance is critical.

The Viper WRL range of products provide fast and effective cleaning and lubricating in one simple process. There are three size options, enabling wire ropes from 6mm to 165mm in diameter to be greased at speeds up to 2,000 metres per hour.

Huge reductions in lube consumption, less pollution, significant extension in wire rope life and improved health and safety, employee wellbeing. Significant financial benefits.

Financial benefits of using the VIPER WRL

- Increases the life of wire rope assets by up to 300% versus manual lubrication methods
- Reduces re-lubrication times of wire ropes from several days to several hours compared to manual lubrication

Environmental/H&S benefits of Viper WRL

- All grease applied goes on the wire rope
- Does not leak grease, meaning no mess
- No wasted lubricant
- Lightweight allows for safe & efficient application
- No direct human contact with the lubricant
- Wire ropes can be lubricated from a safe distance

APPLICATIONS

Mobile Cranes, Tower Cranes
Gantry Cranes, Bulk Carrier Cranes
Ship Lifters
Winches

> We were very impressed by the potential for both savings and environmental gains from using SulnoxEco in our diesel vehicles. The ease and speed of using the product makes this an exciting development in how we manage our fleet as efficiently as possible.
>
> Paul Hutchinson, Sustainability & Compliance Director, MGL Group

> The numbers from these trials make it clear: Sulnox Eco helps our locomotives burn fuel more effectively and run cleaner.
> It's a no-disruption, high-impact solution that fits seamlessly into our operations.
>
> Paul Conway,
> Head of Engineering and Compliance, Colas Rail UK

Sulnox

sulnox

Sulnox helps industry and transport fleets cut fuel costs and emissions right now - with no engine changes or capital expenditure.

Why Industries Are Adopting Sulnox Eco

Sulnox Eco Fuel Conditioner is an organic, drop-in solution for more complete combustion and improved engine function – applicable to all liquid hydrocarbon fuels.

- Fuel Savings: 5% average for marine + 8% average savings for land applications, >300% ROI in weeks.
- Lower Emissions: c.90% particulate reduction, plus lower CO_2, NOx and SOx.
- Protect Engines: c.17% added lubricity + decarbonisation benefits.
- Simple Application: Just add to existing fuel

How It Works - Four Mechanisms

1. **Emulsification:** Disperses free water into microscopic droplets within the fuel
2. **Secondary Atomisation:** Fragments larger fuel droplets through micro-explosions to increase surface area and deliver more complete combustion
3. **Detergency:** Cleans and decarbonises vital engine components for improved operation
4. **Lubricity:** Reduces friction dramatically to lower wear and maintenance costs

Real World Results Across Fleets

From trucks and trains to loaders and container ships, Sulnox Eco works with any liquid hydrocarbon fuel in any combustion engine. Typical savings...

8% Freight & Logistics

5% Marine

6% Construction & Mining Equipment

13% Generators

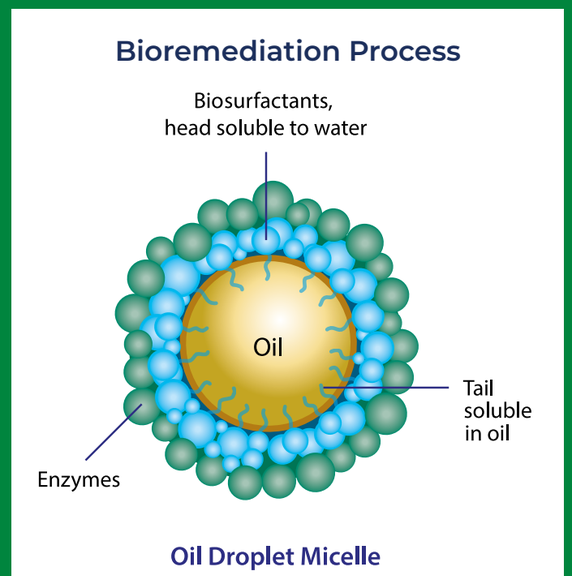
6% Rail (Locos, Tampers)

8% Coaches & Buses

See the savings your fleet could make...
sulnoxgroup.com/savings-calculator/

"We are delighted with OSEII for its ease of use and successful applications as the main treatment of the everyday spills."

Eoin Miller - OIC Services, Orkney Isles



OSE II

The most environmentally safe and cost effective treatment for oil spills and hazardous waste in the heavy lifting industry.

IMPRESSIVE reduction in clean up costs
PERMANENTLY eliminate hazardous waste problems
NO secondary clean-up required

Oil Spill Eater II (OSE II) is the world's most effective Hydrocarbon Bioremediation Product.

OSE II is an environmentally safe clean-up method because it uses nature's own bioremediation process to effectively eliminate hazardous materials. OSE II is not a bacteria (bug), fertilizer or dispersant product. It is a biological enzyme that converts the waste into a natural food source for the native bacteria found in the environment.
The end result is only CO2 and water. OSE II will reduce clean-up costs and permanently eliminate the hazardous waste problem with no secondary clean-up required.

Benefits of using Oil Spill Eater II (OSE II)

- A one stop contamination treatment with no secondary clean-up required
- Non-toxic and completely environmentally friendly and biodegradable
- Works with natural occurring bacteria at the site of contamination without introducing foreign bacteria to the environment
- Will not harm flora or fauna during use

Approved by
United States Environmental Protection Agency
And the only bioremediation solution approved by the
UK Marine Management Organisation

Marine Management Organisation

EPA United States Environmental Protection Agency

> This year, environmental issues are clearly top of mind for the industry, with decarbonization and new environmental regulation listed as the main concerns.

Kasper Søgaard -
Head of Institutional Strategy & Development -
GMF

MakLubes

MAK LUBES
INTERNATIONAL

Water resistant grease solutions for crane wire ropes, as well as specific management of ‘MRO’ requirements in the heavy lifting sector.

Includes **BIODEGRADABLE**, non-toxic grease*
Consistency **PREVENTS SLING-OFF** or dripping
EXTEND lube intervals and **REDUCE** lube consumption

ML253 ECOLOGY EAL WIRE ROPE GREASE

Specifically designed with BIODEGRADABLE, non-toxic natural and synthetic ester base oils and a special calcium thickener system to protect the environment. Meets all specifications required in Construction Equipment, Harbour Cranes and Syncrolift.

A tacky, stringy grease that offers excellent penetration and superior coating protection for wire ropes that are exposed to severe environments including salt water.

This proprietary technology provides a long lasting product with excellent water resistance, good E.P. properties and wear protection. The tacky adhesive NLGI Grade 1 grease will provide a water resistant coating around the wire rope protecting it from rust and corrosion. Will not drip, sling off or wash off wire ropes..

ML200 WIRE ROPE PENETRATING GREASE

Semi-fluid lubricant with excellent adhesion characteristics and water resistance.

Developed from a special blend base oil, additives and thickeners highly resistant to moisture. Ideal for the lubrication of wire ropes and chains that are exposed to severe conditions; its consistency allows fast penetration, protecting against wear, rust and corrosion.

ML221 WIRE ROPE COATING GREASE

Superior dual action lubricant, with excellent penetration and coating protection for wire ropes that are exposed to severe environments including water.

The proprietary technology provides a long lasting product with E.P. characteristics and water resistance. The tacky adhesive NLGI Grade 1 Grease provides a water resistant coating around wire ropes protecting against rust and corrosion. It will not drip, sling off or wash off wire ropes.

*Specific to ML253 Ecology EAL Wire Rope Grease

> “Since moving to MAK Welding all of the welders are happy with the product which is no mean feat.”

Adam Black, SHEQ Assurance Engineer

MC929 MAK FOX
Multi Purpose Degreaser/Cleaner

A unique multi-purpose, non-flammable degreaser that does not contain any hazardous compounds such as hydroxide, phosphate or any hydrocarbons. MAK FOX leaves no residue, is completely biodegradable as well as water-dilutable to 1:100 mix ratio. An excellent product for the transition to industry 4.0 as totally safe for operators, the environment and all delicate surfaces and fabrics. It also has impressive wetting capabilities that make it suitable for every industry, hotels, hospitals, schools, airports, shopping malls & offices etc.
The product has a gel form and can also be used as a detergent in cleaning machines, tunnel washers, hand sprayers and high-pressure cleaners.

MC828 MAK MOISTURE EXPEL
Anti-Corrosion Protection

A professional aerosol product that effectively protects electrical & electronic components on all types of maintenance requirements in the heavy lifting industry.

It provides protection against moisture, corrosion & humidity for a wide variety of cranes and lifting equipment, including electric motors, wiring, connectors, junction boxes, switches, tools & mechanical parts.

MakChem

MAK CHEM
INTERNATIONAL

Quality maintenance chemicals used throughout the heavy lifting sector, specifically designed to help protect equipment and personnel.

Safe for the environment **BIODEGRADABLE** products
NON-TOXIC, SOLVENT FREE degreaser/cleaners
Solutions for waterproofing and **RUST PROTECTION**

MC919 MAK MAX - Heavy Duty Degreaser (NSF A1)

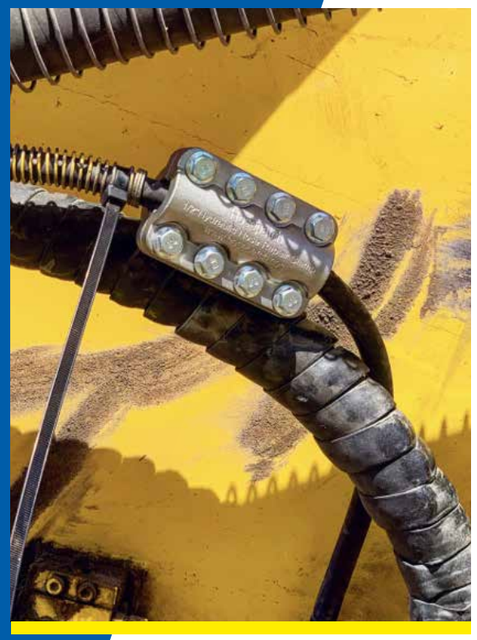
MAK MAX is a concentrated alkaline, aqueous cleaning agent that is used to degrease and clean metal products, surfaces, floors, garages, hangars and printers. It dissolves animal fats and breaks down their molecular binding. Excellent release of dirt from the surface of the material, protecting against corrosion. The unique detergent and molecular release compound acts very quickly and without disturbing the structure of the material. MAK MAX prevents the formation of greasy and oily deposits, breaking the bonds between dirt and grease molecules. The resulting substances are converted into a chemical emulsion which is completely removed by wiping or rinsing.

MC818 MAK SUPEREX - Multi-Purpose Solvent Degreaser

MAK SUPEREX is an excellent aerosol tool for workshops, crane repair and maintenance departments. Working as a multi-purpose solvent and cleaning agent, it leaves no residue after use and evaporates extremely quickly.
MAK SUPEREX is effective on all metal parts as well as ceramics, greases, carbon and synthetic oils. Perfectly cleans rolling and plain bearings, carbon in carburetors, cleaning printing machines and electric motors. After application, the surface is clean and dry.

> “Very impressed with how easy Hosepatch is to use. Pinhole leak was spotted and repaired in less than 10 minutes saving us on costly downtime. Now Hosepatch is a must have on all of our diggers.”

General Manager Waste & Recycling Plant - QLD



Hosepatch

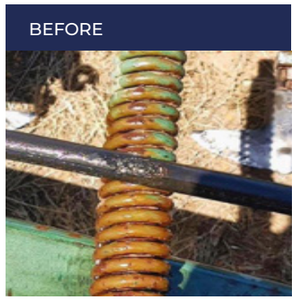
Hosepatch is an instant repair system for hydraulic hoses that fixes a leaking hose in less than 10 minutes!

COMPLETELY seals a leaking hose, working either as a low pressure patch, or as a joiner
Enables work to continue **AVOIDING** costly downtime

HOSEPATCH HYDRAULIC HOSE REPAIR CLAMPS PERFORM WHEN YOU NEED THEM MOST!

Hosepatch in-field hydraulic hose clamps make repairs as simple as possible, with no removal of the hose from the machine.
Cranes and heavy lifting equipment can be up and running in as little as 10 minutes.
The clamps can be used on most types of hydraulic hose eliminating the need to have different fittings for different types of hose.

Emergency, Temporary & Reusable Hydraulic Hose Repair Kit



Using as a Patch

The clamp can be used as a patch for simple repairs. You place the clamps over the leakage in the hose, making sure the hole is placed centre of the clamp and then tighten the bolts. You’re ready to go. Use as a patch has its limitations and best suits pressures under **2000 psi**, small holes, where the hose is in relatively good condition.

Using as a Joiner

Using the clamp as a joiner requires the use of the joining barb that comes in the kit, which means the hose has to be cut. The advantages of using as a joiner are that condition isn’t important and can be used at pressures up to **6000 psi**.

HOSEPATCH clamp/joiner can be removed along with the damaged hose once correct new hydraulic hose is installed. It can then be returned to the kit ready for its next emergency repair job.

"We have never changed our oil and even more we have never had a trip due to a lubrication related issue thanks to Fluitec!"

Mark Joy - Supervisor - SRP

Scan the QR code to view the Salt River Project Case Study

Fluitec

Fluitec

Solving deposit issues and meeting sustainability targets - enhanced lubricant performance and elimination of mechanical issues due to varnish.

SUSTAINABLE treatments for lubricants
RESTORE fluid life and **PREVENT** further deterioration
EXTENDS equipment life

DECON AW - Replenish Depleted anti-wear additives

- **Prolongs the life** of hydraulic fluids
- **Significantly reduces** the oil's varnish potential (as measured by MPC, UC, and Particle Counts)
- **Minimises sludge**, varnish, and other deposits from your system
- **Dissolves varnish** from machine internals
- **Improves** the deposit control performance of in-service hydraulic oils
- **Extends the life of hydraulic fluids**
- **Reduces maintenance costs** and downtime associated with frequent oil changes
- **Minimises** risky and costly flushes
- **Reduces carbon emissions** by cutting demand
- **Improves the performance** of servo-valves
- **Increases the efficiency** of heat exchangers
- **Provides long-term protection** against varnish, sludge, and deposits

DECON AO - Replenish depleted Antioxidants

- **Superior seal compatibility** compared to mineral oil (change of mass, change of volume, change of modulus, change of strength)
- **Excellent oxidation stability** and deposit control characteristics
- **No adverse impact** on the in-service oil's performance (i.e. air release, demulsibility, etc.)
- **Rapid reduction** of the oil's varnish potential as measured by MPC, UC and Particle Counts.

APPROVED BY OEM'S including Siemens Energy, MAN Everllence & SOLAR Turbines

We sell and distribute products for the heavy lifting sector that deliver performance improvement, bottom line financial benefits, AND WITH A MAJOR FOCUS ON SUSTAINABILITY.

How can we help you today?

Information about a specific product?	Hello@aands-international.com
Understand how we can help you towards your zero emissions target?	Angus@aands-international.com
Pricing?	Shaun@aands-international.com
Find out about delivery elsewhere in the world?	Jackie@aands-international.com
Place an order?	Aurelie@aands-international.com
Arrange a meeting	**T: 0118 930 4321**

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Specialist Products for Heavy Lifting : **Committed to Sustainability**