



# MOORING ROPE APPLICATION

**A SAFE, SIMPLE AND EFFECTIVE LUBRICATION  
SOLUTION FOR MOORING ROPES**

The Viper WRL System has been designed to greatly increase the safety of the operators and improve lubrication effectiveness

## HEALTH SAFETY ENVIRONMENTAL BENEFITS

The Viper WRL was developed with safety and the environment in mind. When used correctly the Viper WRL has several Health, Safety and Environmental benefits.

- Every gram of grease goes on the rope
- Does not leak meaning no mess
- No wasted lubricant
- Lightweight allows for safe application
- There is no direct contact with the lubricant
- The rope can be lubricated from a safe distance

## MOORING ROPES

There is typically 10 to 14 mooring ropes on a larger vessel, with each rope around 300m long and between 35 to 40mm in diameter. These ropes suffer from excessive contamination build up due to being dragged over the seabed while being spooled in.

This salt encrusted mud causes premature corrosion and pitting throughout the structure of the rope, potentially risking a rope fracture while in use. This would have catastrophic consequences while Vessels are being pumped and could cause environmental oil spills.



**Extreme salt encrusted mud on a mooring rope**

# WHY CHOOSE THE VIPER WRL FOR MOORING ROPES

## Mooring Line Overview

- Typically, these ropes are cleaned and lubricated by hand, this is both time consuming, ineffective, and very messy.
- In this scenario there are 14 ropes that need to be cleaned and lubricated quarterly

### Manual Lubrication

- Each 300m of mooring rope can take 2 x personnel one day
- 16 hours of labour/rope
- For one complete vessel 16 hrs x 14 ropes = 224 hours in labour cost

Annual Labour required = 1000 hours

### The Viper WRL Way

- Each rope takes 1 hour to clean and lubricate with 2 personnel to complete
- 2 hours x 14 ropes = 28 hours of labour

Annual Labour required = 112 hours

**SAVE 888 hours in labour per year using the Viper WRL**



# BENEFITS OF USING THE VIPER WRL FOR MOORING ROPES

- The easy to use Viper WRL systems require no special skills and no tools to operate
- Single person operation with light weight robust design
- Minimises OH&S issues as operators have no direct contact with the lubricant
- Cleans all outer contamination from mooring ropes and lubricates ropes in one pass at a speed of up to 2000m/hour, dramatically reducing downtime
- Effective lubrication of mooring ropes = Reduced risk of rope failures.
- The Viper WRL system is cleaner to operate and all excess lubricant is captured and may be re-used so no wastage occurs.

## THE VIPER WRL MINI OR MID KIT CAN BE USED FOR CLEANING AND LUBRICATING MOORING ROPES



**Viper WRL Mini Kit**



**Viper WRL Mid Kit**

# VIPER WIRE ROPE LUBRICATOR KIT

The Viper WRL Mini and Mid Wire Rope Lubricator Kits are perfect for lubricating mooring ropes. The kit is supplied as a complete package, with all of the components required to get you started. Simply order the MINI or MID Viper Collar Kit and then select and order the seals and scrapers to suit the rope size to be lubricated.

## Viper WRL Mini Kit Inclusions

### ■ Viper Mini Collar

The Viper WRL MKII Collar is constructed from high-grade cast aluminium alloy with a robust corrosion resistant coating, completed with stainless steel hardware to outlast severe working environments. The Collar comes complete with built-in handles, making it easy to be carried and fitted to the rope by one person.

### ■ Viper Mini MKII Lube Pump, Air Control & Lube Supply Hose

Includes a 2.9kg, 50:1 high pressure pump. It comes complete with air-regulator and air isolation valve to enable better and safer operation. The grease pump comes complete with Drum Cover, Carry Handle, Follower Plate and 4m High Pressure Lubricant Delivery Hose.

### ■ Retaining Ratchet Straps & Shackles

### ■ Robust Aluminium Carry Case



# VIPER WRL MID KIT INCLUSIONS

## ■ Viper Mid high Strength, Cast Aluminium Collar

The MKII Collar is constructed from high strength Aluminium Alloy, precision machined to tight specifications. The collar is completed with stainless steel hardware to provide maximum durability and corrosion protection. The unit is designed for ease of use having handles located on each half of the collar

## ■ High Volume Grease Pump

The Viper Mid MK II kit includes a lubricant pump, built specifically for the Viper WRL. The unit delivers 4.5kg/min at up to 370 BAR.

## ■ Air Regulator/Moisture Trap with Gauge and Isolation Valve

## ■ 4M High Pressure 1/2" Lube Delivery Hose

## ■ High Pressure Lubricant Metring Valve

## ■ Clear Lube Drain hose

## ■ Retaining Ratchet Straps and Shackles

## ■ Robust Aluminium Storage Case

## ■ Convenient Carry Strap for Collar



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