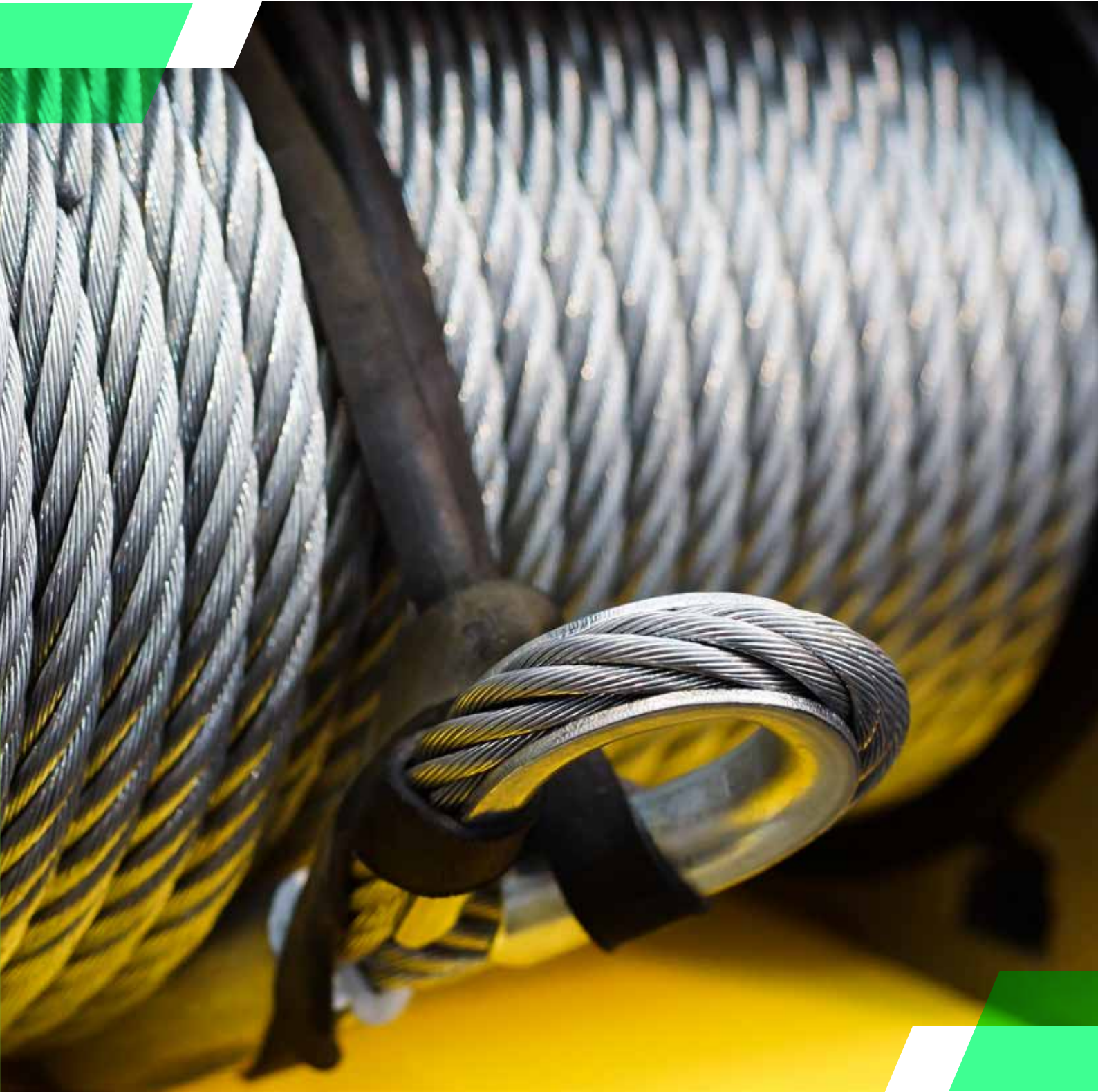




Trusted for Generations



Wire Rope Lubricants and Grease

www.vickers-oil.com

Wear and Corrosion Protection



Choosing the right lubricant

Using the correct lubricant with the appropriate application method can not only maximise the wire rope life but can also eliminate costly replacements and improve safety.

Two key factors that influence the life of the wire rope are resistance to wear and prevention of corrosion.

The correct type and quantity of lubricant will protect the wire rope from degradation, wear, and corrosion.

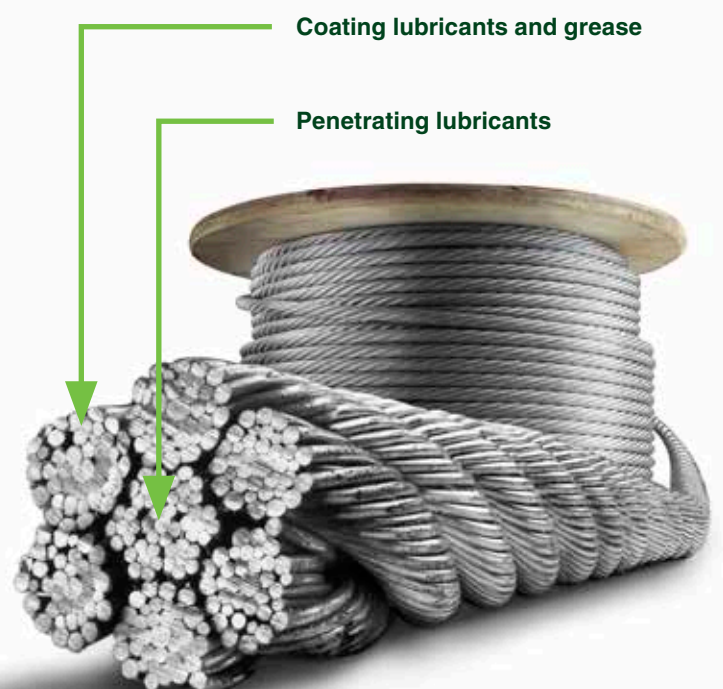
The fluidity of the lubricants helps to ensure that the rope strands are well lubricated, reducing internal wear caused by the metal-to-metal contact occurring when the wires slide or bend around a drum or sheave.

The Wire Rope Lubricants and Grease range prevent corrosion by displacing moisture and forming a thin barrier of continuous lubricant film protecting against the elements.

Vickers Oils Wire rope lubricants and grease have been designed specifically to meet and exceed a variety of requirements across a wide range of applications and operating environments

Types of lubricants for Protecting Wire Rope

- **Penetrating lubricants** contain a solvent component that facilitates penetration of the lubricant into the core of the wire rope. The solvent then evaporates leaving an oil film that protects and lubricates each strand. As wire ropes may fail from the inside, it is critical to ensure the centre core receives sufficient lubricant.
- **Coating lubricants and greases** penetrate slightly and seal the outside of the cable from moisture, reducing wear, rust, and corrosion.





VICKERLUBE HV and LV WRL



VICKERLUBE HV WRL and LV WRL

VICKERLUBE HV WRL and **VICKERLUBE LV WRL** are mineral oil-based wire rope lubricants formulated to suit applications where high levels of corrosion and moisture are a concern.

VICKERLUBE HV WRL is a solvent free, viscous wire rope lubricant whereas **VICKERLUBE LV WRL** contains a solvent component primarily intended for spray application and to assist with penetration into the rope core.

The low viscosity of the **VICKERLUBE LV WRL** allows the lubricant to penetrate between the strands of the rope providing complete rope lubrication. Once the solvent evaporates an oil film is left in-situ.



A standard 16mm dia, 6 x 36 with steel core rope treated with VICKERLUBE HV WRL

Applications

VICKERLUBE HV WRL and **VICKERLUBE LV WRL** can be used on wire ropes to protect them while in storage against corrosion.

They can also be used to effectively lubricate operational wire ropes that are static or moving, against wear and corrosion.

Applications include:

- Quayside ship to shore cranes
- Container handling equipment including straddle carriers and reach stackers
- Marine Deck and Winch ropes
- All lifting and hoist ropes in mining and construction industries
- All static and guy rope applications typically found on bridge and waterway applications
- Lift and drag ropes used in logging and forestry applications

Features & Benefits

FEATURE	BENEFIT	VICKERLUBE HV WRL	VICKERLUBE LV WRL
Low viscosity	Lubricates between rope strands		✓
De-watering characteristics	Displaces water, leaving a thin lubricant film	✓	✓
Corrosion protection	Increases rope and cable life even in salt water	✓	✓
Wear resistant	Protects ropes and cables against wear, increases life	✓	✓
Extreme pressure resistance	Maximises component life in all load conditions	✓	✓
Formulated with a solvent component	Spray application and penetration performance		✓

Biodegradable Wire Rope Lubricants

VICKERLUBE BIO and BIO LV WRL



VICKERLUBE BIO WRL and BIO LV WRL

VICKERLUBE BIO WRL and **VICKERLUBE BIO LV WRL** are biodegradable wire rope lubricants formulated using readily renewable and biodegradable base oils and are suitable for applications where lubricant contamination and environmental issues are a concern.

VICKERLUBE BIO WRL is a solvent free lubricant that penetrates slightly sealing the outside of the cable. The tacky formulation prevents fling-off and water-resistant characteristics displaces moisture to protect against corrosion. **VICKERLUBE BIO LV WRL** is a lubricant with a solvent component primarily intended for spray application and to assist with penetration into the rope core.

The low viscosity of the **VICKERLUBE BIO LV WRL** allows the lubricant to penetrate between the strands of the rope providing complete rope lubrication. Once the solvent evaporates an oil film is left in-situ.

Applications

VICKERLUBE BIO WRL and **VICKERLUBE BIO LV WRL** can be used on wire ropes to protect them while in storage against corrosion.

They can also be used to effectively lubricate operational wire ropes that are static or moving, against wear and corrosion.

Applications include:

- Quayside ship to shore cranes
- Container handling equipment including straddle carriers and reach stackers
- Marine Deck and Winch ropes
- All lifting and hoist ropes in mining and construction industries
- All static and guy rope applications typically found on bridge and waterway applications
- Lift and drag ropes used in logging and forestry applications

Features & Benefits

FEATURE	BENEFIT	VICKERLUBE BIO WRL	VICKERLUBE BIO LV WRL
Biodegradable and renewable	Lowers environmental impact, responsibility	✓	✓
Low viscosity	Lubricates between rope strands	✓	✓
De-watering characteristics	Displaces water, leaving a thin lubricant film	✓	✓
Corrosion protection	Increases rope and cable life even in salt water	✓	✓
Wear resistant	Protects ropes and cables against wear, increases life	✓	✓
Extreme pressure resistance	Maximises component life in all load conditions	✓	✓
Formulated with a solvent component	Spray application and penetration performance		✓



BIOGREASE EP2



BIOGREASE EP2

BIOGREASE EP2 is a biodegradable, extreme pressure grease. It is a Lithium / Calcium thickened grease based on fully saturated renewable esters.

BIOGREASE EP2 offers improved operation and lower environmental risk leading to overall cost savings.

It provides excellent resistance to water wash off and long lasting corrosion protection.

Applications

BIOGREASE EP2 can be used on wire ropes to protect them while in storage against corrosion.

It can also be used to effectively lubricate operational wire ropes that are static or moving, against wear and corrosion.

Applications include:

- Quayside ship to shore cranes
- Container handling equipment including straddle carriers and reach stackers
- Marine Deck and Winch ropes
- All lifting and hoist ropes in mining and construction industries
- All static and guy rope applications typically found on bridge and waterway applications
- Lift and drag ropes used in logging and forestry applications

Features & Benefits

FEATURE	BENEFIT	BIOGREASE EP2
Biodegradable	Reduced environmental impact in the event of spillage	✓
Low water washout	Increases relubrication intervals	✓
Extreme pressure properties	Good load carrying, protection against shock loads	✓
Oxidation resistant	Increased fluid life	✓
Corrosion inhibited	Protects parts against corrosion	✓
Impact resistance	Resists operational impacts to stay in place	✓

Wire Rope Lubricants and Greases





Choosing the correct product



CHARACTERISTICS	VICKERLUBE HV WRL	VICKERLUBE LV WRL	VICKERLUBE BIO WRL	VICKERLUBE BIO LV WRL	BIOGREASE EP 2
Colour	Clear Golden	Clear Dark Red	Clear & Bright	Clear & Bright	Amber (Grease)
Viscosity at 40°C (cSt)	198	23*	51	23*	n/a
Flash Point (SETA) (°C)	>232	>60*	>200	60*	>170 (base oil)
Pour Point (°C)	-5	-24*	-18	-66*	n/a
Copper corrosion	1b	1b	1b	1b	1b
4 Ball Weld Load (kgf)	160	>340	200	>400	400
4 Ball Wear Scar (mm)	0.64	0.38	0.5	0.33	0.52
Biodegradable & renewable	No	No	Yes	Yes	VGP Compliant
Rust Test (A - distilled water)	Pass	Pass	Pass	Pass	n/a
Rust Test (B - synthetic sea water)	Pass	Pass	Pass	Pass	n/a
NLGI	n/a	n/a	n/a	n/a	2
Worked penetration	n/a	n/a	n/a	n/a	274
Dropping point (°C)	n/a	n/a	n/a	n/a	178
EMCOR (ssw)	n/a	n/a	n/a	n/a	0,1
Shelf Life	7 years	7 years	3 years	3 years	5 years

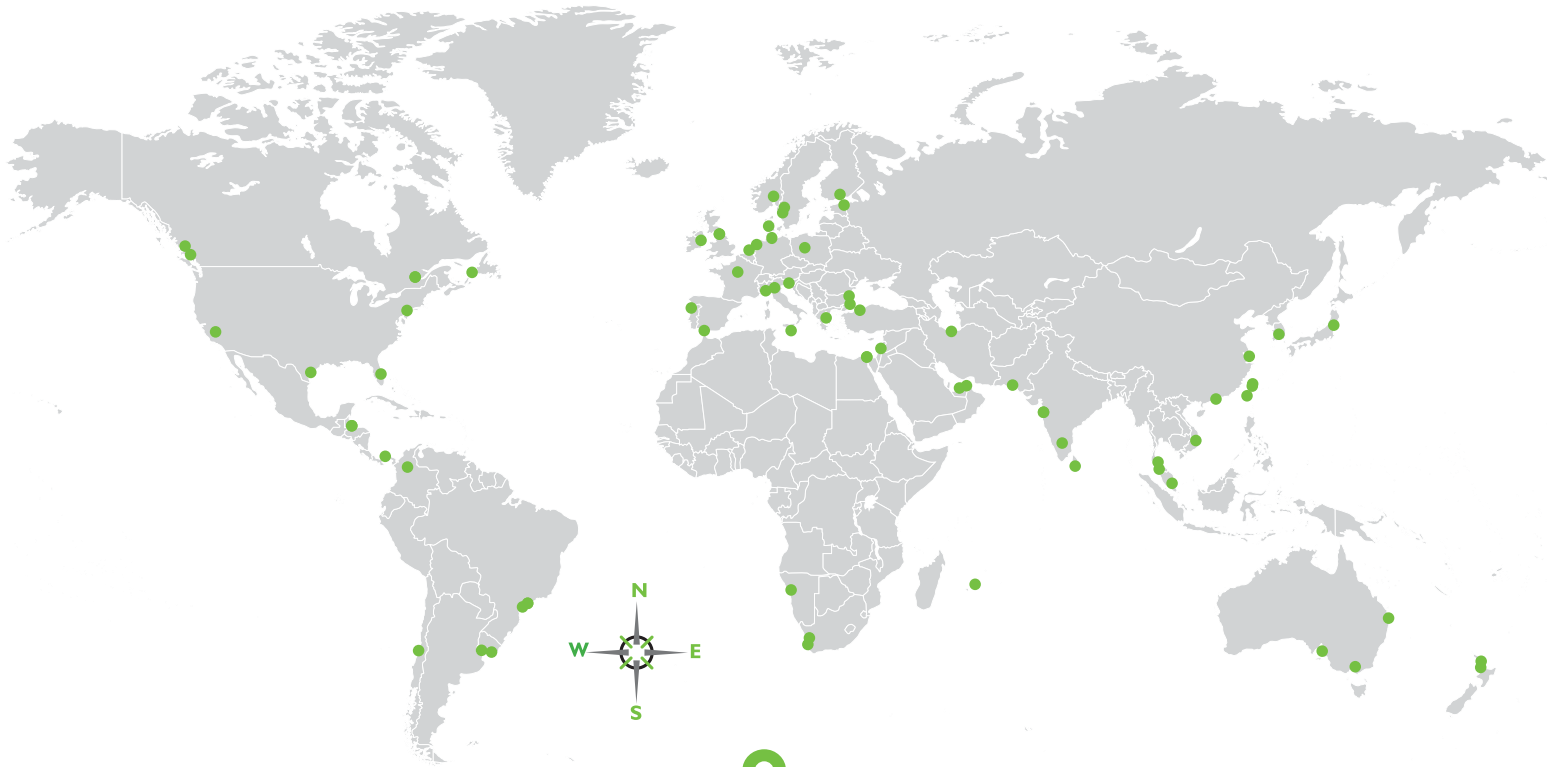
* Generated on diluted product. All other tests run on neat product.



Applicator	VICKERLUBE HV WRL	VICKERLUBE LV WRL	VICKERLUBE BIO WRL	VICKERLUBE BIO LV WRL	BIOGREASE EP
Environmental			***	**	***
Spray	**	***	**	***	
Manual	***	**	***	**	**
Pressure					***
Use					
Penetrating	**	***	**	***	*
Immersion in water					***
Pack size and product number					
25 litre pails	 ✓ 10263	✓ 25963	✓ 25765	✓ 25827	
18kg pails					✓ 25892
400g cartridges					✓ 25892
180kg OH drum					✓ 25892



Trusted for Generations



An **award-winning range** of EALs (Environmentally Acceptable Lubricants)



Regional stock points in over 40 locations



Ability and infrastructure to **respond quickly** to urgent requirements

Service & Support

30% of our workforce are employed in the technical team, focusing on Quality Control, R&D, OEM liaison and Technical Service allowing us to provide one-on-one dedicated customer support by our team of highly qualified experts.



Field Support



Lubrication Surveys and Recommendations



Equipment Reports and Analysis



Lubricant Analysis



Training

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Certified to the ISO 9001
Quality Standard and the
ISO 14001 Environmental
Management Standard



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