

Atlas Copco

CERTIFIED BY PROFERRO N.V.  
MAWP: PRESSURE 1.5(220) MPa(PSI)  
AT TEMPERATURE 220(248) °C(°F)  
MDWT: TEMPERATURE -10(14) °C(°F)  
AT PRESSURE 1.5(220) MPa(PSI)  
UM S/N : 191858 YEAR : 2014

VOLUME M 62 L/ 62 dm<sup>3</sup>  
N PRESSURE Pn 15 bar/ 1.5 MPa  
PRESSURE Pt 20 bar/ 2.0 MPa  
MAX DESIGN TEMPERATURE -15/ 120 °C  
FACTURED BY: PROFERRO 59100 TERPR BELGIUM CRM 100190 45

CE 0038 Atlas Copco



# Get first-class performance with genuine lubricants

Your compressed air system needs specific lubricants to achieve maximum uptime, performance and lifetime. Boost your sustainability with tailor-made Atlas Copco lubricants.

# The right lubricant for your compressed air system

## Keeps your system healthy

What determines a compressor's health is the performance of each of its components. Compression takes place in the heart of the compressor. The right lubricant plays a vital role in providing you with a steady, reliable flow of compressed air.

It protects rotating parts to avoid metal-to-metal contact. To ensure optimal working temperatures, it absorbs heat. It seals the clearances between the rotors and the housing, preventing air backflow and reduced output. Finally, it absorbs contaminants or carries them off to the lubricant filter.

To perform this multi-functional role at increasing and more varying operating conditions, high quality lubricants are needed. Atlas Copco's lubricants have a unique formula to perform this task. With the right balance between base oil and additives, this high-quality lubricant keeps your compressor nourished and protected.



## Protects your investment

The lubricant in the compressor comes into contact with multiple components, made of a wide variety of materials.

The right lubricant is suitable for contact with all these different parts and consumables and preserves the health of your compressed air system.

An silicone lubricant may be destructive for softer parts such as gaskets, seals and hoses. This could result in leakages, reduced performance and even breakdowns.

Don't take any risks. Use Genuine Lubricants only!

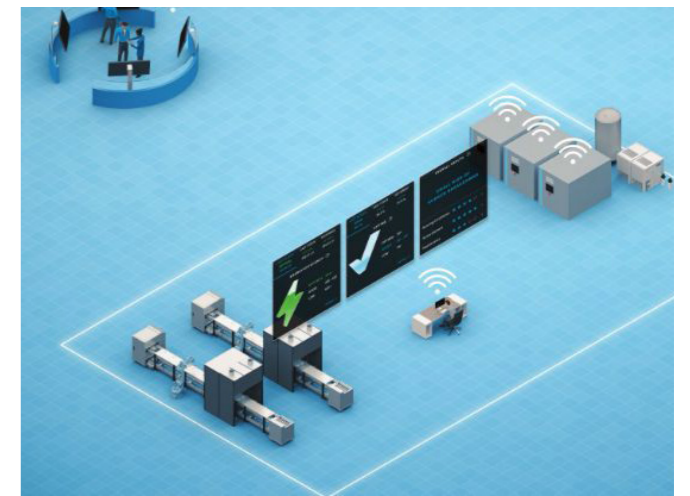
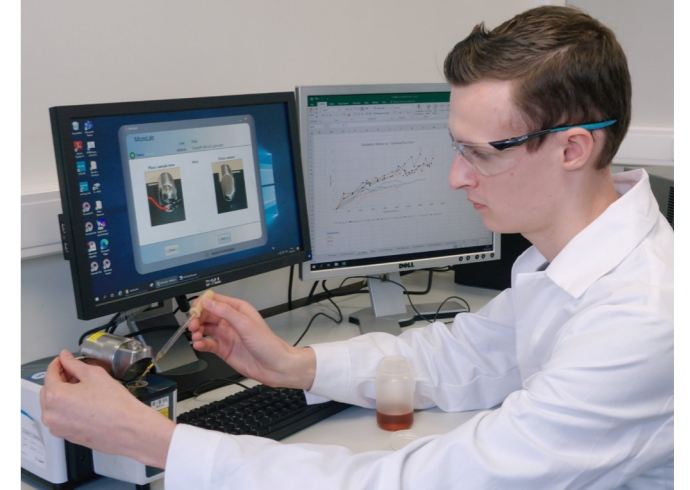
## Has a tailor-made formula

Compressor lubricants have to live up to the most stringent demands. But these demands are constantly changing. The ambient temperatures compressors are working in are on the rise.

Apart from these external factors, lubricants also need to keep up with ongoing evolving compressor technologies. The major efficiency improvements of our compressor designs can only be realized with the Atlas Copco lubricants which can cope with the increased demand.

Continuous monitoring and data analysis from the compressors installed all across the world, allows us to understand these demanding requirements our lubricants need to withstand.

Our uniquely skilled team looks at all technical specifications, market needs and the ecological footprint of each selected lubricant.



### DID YOU KNOW?

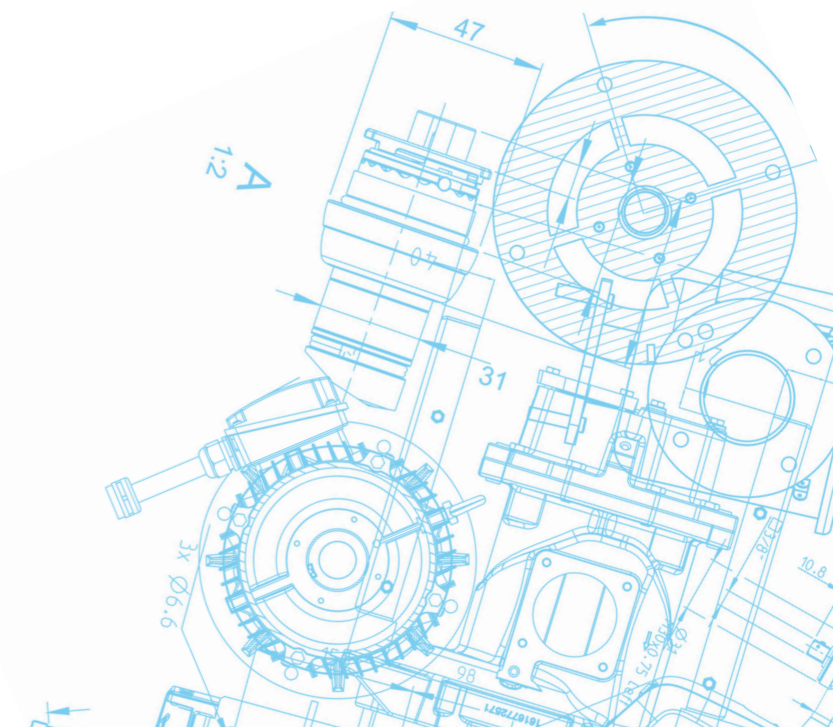
Using a non-genuine lubricant can increase your total cost of ownership with 75%

## Makes you ready for the future

Finally, lubricants play an important role in meeting your environmental responsibilities, today and in the future.

The transition from mineral to synthetic lubricant not only guarantees the best performance in all conditions, it increases the sustainability of your compressed air system and reduces your CO2 footprint.

[Discover a simple step you can implement right now](#)





# Additives that tackle the threats

## Prevents oxidation

When exposed to oxygen, high temperatures, water or dust, the lubricant will oxidize. This creates oxidation products, acids and deposits that will decrease the lubricant life and may cause damage and undermine the compressor's performance.



## Compatible with all parts

The lubricant in the compressor comes into contact with multiple components, made of a wide variety of materials, from metal to softer materials for gaskets and seals. Only the right lubricant composition makes it suitable for contact with all these different parts and consumables.



# Lubricants that reduce your energy cost

## Go synthetic

Did you know that by moving to our tailor-made synthetic lubricants in an oil injected screw compressor, you can **reduce your energy cost, lubricant consumption and maximize your uptime?**

How do we do this?

- optimal viscosity (lubricant thickness) behavior during operation
- minimal friction losses
- excellent air release to avoid compressing air bubbles twice
- more stable viscosity behavior over the complete service life

## Go green

And on top of that, it is an easy way to **reduce your CO<sub>2</sub> footprint** and environmental impact.

Switching to synthetic lubricant means:

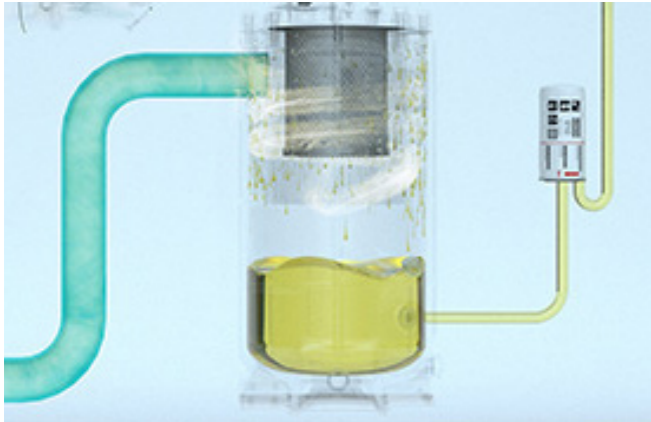
- less crude oil production
- less transport
- less packaging
- less waste oil



## Prevents foaming

A specific and well-balanced mix of additives prevent foaming of the lubricant, especially in the air/oil separator where the air/oil mixture is subjected to turbulence and high pressure and temperature differences.

Preventing foaming means protecting the quality of the outgoing air.



## Prevents wear

Having the right protective film over rotating parts is all about viscosity behavior at different temperatures, combined with anti-wear additives that form a chemical coating.

This prolongs the lifetime of rotors, bearings and gears and prevents breakdowns.

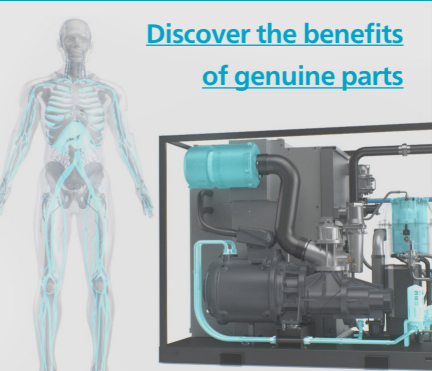


## Why choose genuine lubricants?

Your compressor is like a human body with its vital organs. If these are in good shape, we are healthy and fit.

Each component of your compressor is vital for its overall performance, giving you the reliability, long lifetime and energy efficiency you expect.

That's why our lubricants are expertly designed, manufactured and tested according to the most stringent standards. That's why using non-genuine replacement lubricants puts your entire air system at risk.



# How to choose the right lubricant



Oil Injected Screw compressors need specific lubricants and fluids to achieve maximum uptime, performance and lifetime.

The combination of your compressor and ambient conditions, like temperature, humidity and dust, is unique. So to get the best performance and reliability, choose a one-of-a-kind lubricant as well. Our range includes synthetic lubricant, mineral based lubricant and NSF Food grade lubricant.

## How to use the lubricant selector by defining your operating conditions

- Define the operation temperature: the element outlet temperature, or alternatively the average ambient temperature
- Define the humidity\* and dust\*\* level of your environment

With this information, the duty type can be categorized as mild, demanding or extreme. Per duty type, the lubricants in the Atlas Copco portfolio will have a specified lifetime.

Element Outlet Temperature	< 95°C (203°F)			95°C - 105°C (203°F-221°F)			> 105°C (221°F)				
	Ambient Temperature			Humid			Dusty				
Ambient Temperature	< 30°C (86°F)			30°C - 40°C (86°F - 104°F)			> 40°C (104°F)				
Humid	N	Y	N	Y	N	Y	N	Y	N	Y	N
Dusty	N	N	Y	Y	N	N	Y	Y	N	N	Y
Duty type	MILD			DEMANDING			EXTREME				
Running hours	2000h	4000h	8000h	2000h	4000h	8000h	2000h	4000h	8000h		
RIF Ndurance	✓	✓	✓	✓	✓	✓	✓	✓	✓		
RS Ultra	✓	✓	✓	✓	✓	✓	✓	✓	✓		
RS Xtend Duty	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Food and Beverage / Pharmaceutical Applications											
RS Foodgrade	✓	✓	✓	✓	✓	✓	✓	✓	✓		
RS Foodgrade Ultra	✓	✓	✓	✓	✓	✓	✓	✓	✓		

**\*Humid** - how to choose

- **N**: locations that are not humid most of the year
- **Y**: locations that are humid most of the year (tropical rainforest, monsoon and megathermal climates)

**\*\*Dust** - how to choose

- **N**: normal dust levels (food and beverage, automotive, electronics, petrochemical, gas purification, etc...)
- **Y**: high dust levels (mining and cement, metal, steel manufacturing and foundries)

## General Applications

### Roto Inject Fluid Ndurance

Premium mineral lubricant

- **Mild** up to 4.000 hrs / 1 year
- **Demanding** up to 2.000 hrs / 1 year
- **GR / ER compressors or VSD+ ranges** not recommended



### Roto Synthetic Ultra

Standard synthetic lubricant

- **Mild** up to 6.000 hrs / 2 years
- **Demanding** up to 4.000 hrs / 2 years
- **Extreme** up to 3.000 hrs / 2 years
- **GR / ER compressors** Up to 2.000 hrs / 2 years



### Roto Synthetic Xtend Duty

Premium synthetic lubricant

- **Mild** up to 8.000 hrs / 2 years
- **Demanding** up to 8.000 hrs / 2 years
- **Extreme** up to 4.000 hrs / 2 years
- **GR / ER compressors** Up to 4.000 hrs / 2 years



## Food and Beverage / Pharmaceutical Applications

### Roto Synthetic Foodgrade

Standard synthetic lubricant, Halal and Kosher approved

- **Mild** up to 4.000 hrs / 1 year
- **Demanding** up to 2.000 hrs / 1 year
- **GR / ER compressors or VSD+ ranges** not recommended



### Roto Synthetic Foodgrade Ultra

Premium synthetic lubricant, Halal and Kosher approved

- **Mild** up to 4.000 hrs / 2 years
- **Demanding** up to 4.000 hrs / 2 years
- **Extreme** up to 3.000 hrs / 2 years
- **GR / ER compressors** Up to 4.000 hrs / 1 year



Our **Foodgrade range** are high-performance fluids specifically designed for use in oil injected screw compressors operating in the Food/Beverage, Pharmaceutical and packing industry. They meet national and international regulations strict manufacturing standards regarding contamination risk management and allowing active Critical Control Points management (in an HACCP system).





[atlas-copco.com](https://atlas-copco.com)

