



Welcome to the  
World of ADDINOL

**ADDINOL – The experts for high-performance lubricants**

## 1. Introduction

Today lubricants are rightly considered as constructional elements. After all, they enter into a symbiotic relationship with the mechanical components of engines and plants. Therefore, the requirements on lubricants are ever increasing and high-tech products functioning over long periods and under highest loads are in demand as never before.

Sustainable economic management allowing maximum energy efficiency and the protection of environment and resources is a dominating trend which is going to continue in the upcoming years. One main focus is renewable energies – more and more countries recognize and encourage the generation of energy in harmony with the environment by the help of wind power and biogas plants. And our reputation precedes us – after all, our high-performance gear oil ADDINOL Eco Gear with above average service lives and its anti-wear effect has proven since many years and in more than 1,500 wind power plants in Germany alone.

The lubrication of biogas engines is one of our core competences. ADDINOL co-operates closely with engine manufacturers to develop innovative products such as the ADDINOL gas engine oils MG 40-Extra Plus and MG 40-Extra LA.

16 % of the electric energy generated worldwide are generated in hydroelectric power plants, trend: upwards. For the sustainable operation of their gears ADDINOL Eco Gear is number one choice.

By the way, ADDINOL is represented in more than 70 countries – including those expecting the highest growth rates of renewable energies in the upcoming years.

## 2. Our business

Saxony-Anhalt is an innovative industrial location in the centre of Europe. ADDINOL, located in the chemical site in Leuna, supplies a large number of partners and dealers at home and abroad.

### **German quality since 1936**

The former Mineralölwerk Lützkendorf was founded in 1936 and soon became one of the largest national refineries. After the reunification of Germany the company changed its name to ADDINOL – Additives in Oil – which had been the name of its most famous brand in the GDR. Today development and production are carried out at the chemical site in Leuna/Saxony-Anhalt according to the latest standards.

### Optimum solutions for all lubrication-related applications

ADDINOL is one of the few companies in the German mineral oil industry acting independently of any large business group and has distributor partners on all continents in more than 70 countries. Our product range includes more than 600 high-performance lubricants such as engine oils for motor vehicles, a broad range of oils and greases for industry and special products for demanding applications at the cutting edge of technology.

### We are setting new standards

In their role as design elements reflecting the most recent state-of-the-art, ADDINOL high-performance lubricants reveal their full performance in symbiosis with engines, drives, chains, bearings and hydraulic systems. ADDINOL provides intelligent solutions which guarantee optimum lubrication and ensure responsibility towards the environment at the same time. Many of our lubricants achieve significantly longer drain intervals compared to conventional products and increase the service life of the components lubricated. In addition, they are proved to reduce the energy consumption of plants and to minimise polluting engine emissions. Operating costs are cut and so is the use of valuable resources which – from an economical and ecological point of view – ensures sustainability and contributes to the preservation of our environment in the long run.

### Production and logistics according to highest quality standards

All ADDINOL high-performance lubricants are developed, produced and filled at the chemical site in Leuna. Production plant and the company-owned logistics centre were built according to latest standards and meet the highest requirements relating to environmental protection. The whole production process starting from the delivery of the feedstock up to the filling of the products is carried out according to strict safety standards.



### More than 150 approvals from leading vehicle manufacturer

ADDINOL's automotive range includes engine and transmission oils fulfilling the highest international specifications. More than 150 approvals from leading OEMs such as Mercedes-Benz, the Volkswagen group, BMW, MAN, Porsche, Scania, Volvo and MTU argue for the outstanding quality of ADDINOL lubricants for all motor and commercial vehicles. The continuous development of commercial vehicle engines leads to increasingly strict limits on nitrogen oxide emissions which cannot be achieved without appropriate lubricants.

### 3. Statement of support

Since September 2007 ADDINOL is a member of the UN Global Compact. By its membership ADDINOL undertakes to realise the ten principles of the UN Global Compact within its worldwide entrepreneurial activity. These ten principles reflect the minimum standards of human rights, job norms, environmental protection and the fight against corruption. Due to its membership ADDINOL has the possibility to contribute to a fairer globalisation.

For a respectful and responsible approach to our environment, for the support and respect of human rights as well as for the adherence to standards of health and safety, the management and employees of ADDINOL Lube Oil GmbH practise the active implementation of these principles at the company.

In the following it is described how ADDINOL supports and realises the principles 1, 2, 3, 4, 5, 6, 8 and 9.

This COP reflects a period from September 2009 to September 2010.

### 4. The compliance of the principles

#### Principle 1 and 2

**Business should support and respect the protection of internationally proclaimed human rights as well as make sure they are not complicit in human rights abuses.**

We respect human rights within our sphere of influence and operate our business in such a way as to make us an exemplary employer.

#### Measurements 2009 / 2010

We provide a safe work environment for our partners, customers, suppliers and employees. We support some local projects like sponsoring of sport clubs or supporting children's homes and workshops for handicapped persons.

#### Principle 3

**Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining.**

ADDINOL recognise the employees freedom of association and their right to collective bargaining. All employees of ADDINOL have the right to join trade unions and form employee representations.

Employees within trade union organisations or employee representative are neither preferred nor disadvantaged.

#### Principle 4 and 5

**Businesses should uphold the elimination of all forms of forced and compulsory labour as well as the effective abolition of child labour.**

We condemn any kind of child labour as well as forced and compulsory labour. We stop all co-operations with business partners, which use child labour and violate human's dignity.

#### Principle 6

**Business should uphold the elimination of discrimination in respect of employment and occupation**

ADDINOL Lube Oil GmbH does not accept any harassment, discrimination, insult or similar behaviour due to origin, race, religion, political opinion, sex or handicap. Furthermore, ADDINOL also employs physically and socially disadvantaged people.

ADDINOL has business partners in all parts of the world, which meet regularly at international partner conferences. Continuous co-operation as well as an active exchange of experiences will promote cultural diversity as well as mutual respect and understanding.

#### Principle 8

**Business should undertake initiatives to promote greater environmental responsibility**

Measurements 2009 / 2010

##### 1. Certification according to ISO 14001

ADDINOL Lube Oil GmbH is preparing for the environmental audit ISO 14001 from September 11<sup>th</sup> to September 13<sup>th</sup>. For ADDINOL the certification is an instrument for attaining ecological and economical objectives. By certification we always fulfil legal obligations and political environmental requirements and promote an awareness for a sustainable development.

Our targets with receipt of the ISO 14001 certificate:

- Reduction of environmental pollution under socio-economic aspects
- Cost reduction by waste management concepts
- Information processing by a quick identification of environmental hazards and proof of operators obligations
- Strategic business development by an effective overall system in environmental protection as well as systematic development of preventive environmental protection

## 2. Construction of a green office building

In 2009 a new office building for our Eastern Europe headquarter was constructed – a green office building, which is environmentally friendly and energy efficient.

Measurements:

- Below the warehouse there is a special oil collector to protect the earth against pollution in case of spilling
- The LED light box is equipped with a separate wind energy plant. So, the lighting of the ADDINOL company logo is achieved by regenerative wind energy.

## Principle 9

**Business should encourage the development and diffusion of environmentally friendly technologies**

Measurements 2009 / 2010

### 1. Solar energy

ADDINOL supports renewable energy – in particular, solar energy. As the largest source of energy, the sun delivers around  $1.08 \cdot 10^{18}$  kWh to the surface of the earth. Sunlight can be converted into electricity using photovoltaics (PV). PV has mainly been used to power small and medium-sized applications, from the calculator powered by a single solar cell to off-grid homes powered by a photovoltaic array.

The company Solarus approved two biodegradable greases from ADDINOL for the lubrication of their photovoltaic devices. ADDINOL Ecosynth Flange Grease and ADDINOL Ecosynth Flange Grease G are especially used for the lubrication of the trading system of photovoltaic plants.

### 2. Resource saving by hydraulic oils

A main objective of our research and development department is the formulation of new high-performance lubricants to realise a saving of fuel and power. Hence, a responsible and sustainable handling with resources can be realised.

ADDINOL develops a new generation of hydraulic oils - MEHF: maximum efficiency hydraulic fluids, especially for the application in mobile and stationary hydraulics. In comparison with HVLP oils a reduction of fuel consumption (mobile hydraulics) as well as a decrease of power consumption (stationary hydraulics) is achieved. Furthermore, an increased hydraulic power leads to a improved labour productivity:

Front loader	units	HVLP	MEHF	saving
oil change intervall	h	1000	1000	
hydraulic oil fill quantity	l	49.2	49.2	
Hydraulic oil price	€ / l	01. Jun	03. Feb	
hydraulic oil costs	€	78.72	157.44	-78.72
number of excavations with 115 m <sup>3</sup>		44.8	51.8	7
time needed for excavations	h	1004.5	868.7	135.8
leasing and labour costs per hour	€ / h	80	80	
leasing and labour costs per 45 units	€	80360	69496	10864
fuel consumption for 45 units		2789.3	2454.5	334.8
fuel price	€ / l	1.35	1.35	
fuel costs	€	3765.6	3313.6	451.98
total costs / saving effect	total €	84204.3	72967.0	<b>11234.26</b>

Chart 1: Values of MEHF compared with HVLP for the application in front loaders

You will find the original chart in: Mobile Maschinen, Ausgabe 4, November 2008, Seite 5