

KROON-OIL MAGAZINE | EDITION 12 - 2010

# LUBEVISION

Customer Magazine issued by Kroon-Oil B.V., full of news and information about lubricants



# KROON-OIL.TV

A SPECTACULAR PLATFORM FOR VIDEO AND PHOTOGRAPHS

# **ADDITIONAL**

**PRODUCT UPDATE** 

THE AGRI-PRODUCT LINE AND A NEW GREASE RANGE

**SPONSORING** 

E & E RALLYSPORT IN BELGIUM

TECH CORNER MARLY - FUEL ADDITIVES

# **LUBEVISION®**

Lubevision ® is a Kroon-Oil magazine which is published twice per year for our customers and other interested parties. The magazine concentrates on sharing technical information regarding lubricants and the distribution of news about our products and services. Lubevision is published in the following languages: Dutch, English, French, Norwegian and Lithuanian. No information or articles in this magazine may be duplicated in any form, without prior written permission from Kroon-Oil B.V.



# **KROON-OIL.TV**

On line photo and video platform: Building a brand



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**SHARING KNOWLEDGE** 

Knowledge is power; make use of Kroon-Oil's knowledge



# **MARLY FUEL ADDITIVES**

The most effective engine treatment on the market!



# **E&E RALLYSPORT**

Infected by the Rally-virus



# PRODUCT UPDATE

Armado Synth NF, New grease product range



# **AGRI PRODUCTS**

A new product line for the agricultural sector



"THE CREATION OF KNOWLEDGE IS
IMPORTANT, BUT THE REAL DIFFERENCE
IS THAT WE SHARE OUR KNOWLEDGE
WITH OUR CUSTOMERS."



The completely restyled Lubevision is in front of you! Lubevision was first published in 2005, now more than 5 years ago. During those past 5 years we have shared a lot of knowledge with you. We published articles about our Dutch and our export customers, about the products and services that we offer, and in particular about technique and technical developments in the lubricants branch. In this and future issues you will once again find a .lot of information, however in a new style. During the last few years a number of things have changed in our appearance and presentation. Many of our packages have been replaced by newly designed, high tech ones and also our communication tools, such as leaflets, flyers, handouts, etc. have been modernized. Time has come to do the same with Lubevision. The new style fits in perfectly with the innovative and ambitious character of our brand. Straight lines and playful details will enhance the readability and provide for fascinating entity. The contents of Lubevision will remain under constant review to ensure high quality and up to date articles.

Sharing knowledge is our theme for 2010. Knowledge is power and with more than 100 years experience as manufacturer and supplier, we have the best possible knowledge of our products and their applications. The creation of knowledge is important, but the real difference is that we share our knowledge with our customers. For that reason we developed in the mid nineties a database containing technical lubricant data for the European fleet of cars. Over the years we have enormously expanded the information and the Kroon-Oil database is the most frequently consulted lubricant recommendation programme in the market. In 2009 we have developed a version of our website for mobile phone applications and we now also offer a service

to receive motor oil advice per SMS. As part of our theme: Sharing Knowledge, the Kroon-Oil staff can frequently be found in our local and export markets to train customers and other interested parties on the extensive subject of lubrication. Also training and updating the knowledge of our staff is an important aspect, to ensure that every member of the Kroon-Oil team gives the best possible performance. In this edition of Lubevision you will find an extensive article about our concept: sharing our professional knowledge.

Also on the subject of our product range we constantly progress. The fuel systems of the modern generation Diesel and also petrol engines are comparatively sensitive for contaminations. To maintain the fuel system in optimum condition, we have introduced a range of high quality fuel additives in our Kroon-Oil assortment. We inform you about the possibilities of these Marly Additives in Tech Corner.

In the section "Sponsoring", our Belgium colleague Erik Degeling talks about E & E Rallysport. In our Product Update we deal with our Agri-Product line and our new range of Kroon-Oil greases.

We also introduce a new feature: KROON-OIL.TV: a video and photo platform with interesting and often spectacular visual material. Are you curious? Please go to page 4 of for further information.

I wish you a lot of reading pleasure with this completely redesigned Lubevision.

Leon ten Hove Chief Editor



The platform shows free of charge videos and photographic material that is conveniently arranged / categorised with the assistance of an excellent search mechanism. To achieve this we make use of You Tube technology. Accordingly all the material is provided with special "tags" and this makes it easy to retrieve the material on the site.

KROON-OIL.TV includes visual material about general Kroon-Oil company business, our production facilities, product demonstrations, technical and commercial information and training issues. In addition there will be a high degree of "fun aspects", such as footage about our sports activities, from rally sport to flying-acrobatics!



## AN IMAGE CAN SAY MORE THAN 1000 WORDS

The idea behind the development of KROON-OIL.TV is the fact that it becomes more and more important to have a visual platform available for the exchange of information. Anybody who is enthusiastic about Kroon-Oil can "lay his egg"

on KROON-OIL.TV! An image is not bound by language and can be understood by all. KROON-OIL.TV strengthens our international position and supports our importers in their efforts to promote our brand in their market. This feature answers questions regarding quality, technical issues and commercial matters, efficiently and in a comprehensive manner. It shows clearly who Kroon-Oil is and what we do. In addition all our distributors worldwide get closer in cooperation. Our customers in Taiwan can now see what race / race team is sponsored by our Italian distributor.

We are very enthusiastic about all these developments and kindly invite everybody, world wide, to send us video and/or photographic material, which relates to Kroon-Oil. Please send your material for the attention of our marketing department: marketing@kroon-oil.nl. If you are in doubt, please contact our Chief Editor, Leon ten Hove or Kim Asma, via Int.-31-546 818165. During the coming months, we will concentrate our efforts to fill the web site with photos and videos to provide a professional platform with up-to-date technical and commercial information. Since we are in the early stages of this project, we will much appreciate the input of our Kroon-Oil distributors and customers to make this project a customer friendly and interesting feature. So, if you have any remarks/suggestions, please don't hesitate to contact us.

KROON-OIL.TV can be reached via our web site WWW.KROON-OIL.COM

We wish you a lot of enjoyment with KROON-OIL.TV! Together we will further expand our beautiful brand.

Green Zone Group
Real Estate Investors

# **QUALITY LEAVES NOTHING TO CHANCE!**

SHARING KNOWLEDGE "THE VEHICLE BRANCH IS A DYNAMIC WORLD. THIS CONTINUOUS CHANGING ENVIRONMENT REQUIRES ADAPTABILITY, INNOVATION AND PROACTIVE THINKING."

# SHARING KNOWLEDGE

Pulling a tin of oil just like that from the shelve and expecting that by chance, the oil is suitable for your engine is no longer altogether true. Technically too many things have changed, since from a technical point of view, vehicles become more and more complex; engines become more powerful, fuel consumption en emission levels have to be minimised, braking systems become more advanced. Gearboxes have to become more efficient and gear changes have to become smoother. The combination of all these points has a large impact on the lubricants industry, since new technological developments often ask for new specially developed lubricants. Lubricants have become "construction parts". In addition there is a tendency that the range of vehicles increases, since older vehicles do not disappear from the market as fast as new models are added. It follows that the number of different lubricants further increases. The selection of the correct lubricant for each application in each different vehicle becomes accordingly more complicated and the need for thorough information is growing.

The exclusion of coincidence in an ever-changing environment asks for adaptability, but also for innovation and proactive thinking. We are of the opinion that coincidence can be excluded if there is KNOWLEDGE. Understanding of the technical aspects and knowledge of the market ensure that we are always in a position to offer an optimal product assortment and equally important, provide people with information as to how these products should be applied.

### **INTERNAL TRAINING**

To anticipate in the need for information is the key to success in the lubricants branch. To be able to give information and advice one needs knowledge. Knowledge and understanding of the technique and of the branch must be available or be created. We achieve this through on-the-job-training of our sales team, i.e. our internal and external sales staff. This is a fixed part of the initial training programme. During this training the basis is created for a thorough level of technical knowledge. This knowledge is continuously updated and extended by means of technical refresher courses, which are the responsibility of our technical advisor, Tom Bruggeman. In this way our sales team is always up to date informed about the latest developments and accordingly they are in a position to give our customers the latest and correct information. Not only our sales team, but also our staffs in the factory, and in the expedition department are technically updated at regular intervals. They know the products, their applications and their sensitivities. This excludes coincidence and guarantees quality products. Through these training sessions all concerned with Kroon-Oil lubricants are fully aware of their responsibilities and this enhances their performance level.

The real difference is made through sharing our knowledge and making it available to distributors, professional users, training institutes and end users. Kroon-Oil always makes their lubricants technical information available to each and every interested party. HOW?

# **COMMUNICATION-INSTRUMENTS**

We transform our knowledge into instruments, which are able to present this information in a clear manner to the outside world. The vehicle to do this is our "database", by now a concept for all those who make use of lubricants. This database can be consulted in different ways and we continue to develop new communication instruments to ensure that we can offer these services in the best possible ways.

# www.kroon-oil.com - a good advice!

On the basis of the information of your vehicle, you receive a professional lubricants recommendation advice. Kroon-Oil were the very first to offer lubricant recommendation on the basis of the license plate number of a vehicle (this service only applies to those markets/countries, where a license plate number is linked to a vehicle.

## www.kroon-oil.com for mobile phones

This website was specifically designed for use on a mobile phone. It makes available for mobile phones the main applications of our website. Accordingly you cannot only visit the lubricants recommendation database, but also our product catalogue and you can download Safety Data Sheets. Also with this service Kroon-Oil was pioneer in the market.



### Kas

The Kroon-Oil advisory system: an impeccable trendy pillar in the shape of a Kroon-Oil full colour drum with a maintenance-free computer. Kas gives our distributors the opportunity to offer their customers free entry to the recommendation database of Kroon-Oil. This way our distributors always provide expert and up-to-date advice for passenger cars, trucks, motorcycles and agricultural and earthmoving equipment.

TECHNICAL TRAINING

Our technical advisor, Tom Bruggeman, looks after technical training sessions both for Kroon-Oil distributors, as well as technical institutes. During such training sessions general lubricants subjects are discussed, including (the treatment of) base oils, the composition of the different lubricants, applications, specifications, etc. After this general training session, the more specific Kroon-Oil product training takes place, during which the different Kroon-Oil products, their properties and their applications are discussed. The training sessions contribute to the awareness of the importance of application of the correct lubricant. It also gives distributors the necessary support in their marketing activities of Kroon-Oil lubricants.

### **RESPONSES:**

# **AD Autoparts (Tessenderlo en St. Truiden)**

Our customer: AD Autoparts (Tessenderlo and St. Truiden, Belgium)

Mr Gunther Cloesen, one of the managers of AD Autoparts: "We have experienced the training as very positive. Mr. Tom Bruggeman has supplied us with interesting and useful information. Before, we often recommended our customers to use a universal oil, however following the training we now realise that such recommendation were not always correct. When a customer now comes to us, we consult the Kroon-Oil database to decide which oil is the most appropriate for the application. The background information about the composition of products and the treatment of base oils was very striking. This knowledge we

about the composition of products and the treatment of base can use extremely well to explain to our customers what oils and why a particular type of oil is recommended

Kroon-Oil contributes towards the Aucation

Not only our customers feel the need to upledge, we are also more and more frequently Training Institutes for our information. Tom has sion for the "Timloto" Foundation.

# tomotive Technical Edu-

the differences are between the various

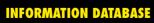
for a specific application"

grade their technical knowapproached by Technical recently given a training ses-

Timloto is a collaboration between lecturers on the subject of Motor Vehicle Technique with the aim to make a contribution towards the automotive technical education by making the necessary information

available to students and lecturers. The

lecturers of Timloto arrange at regular intervals sessions with professionals to maintain and supplement their knowledge. This knowledge is converted into educational tools, which are made available for the (educational) community through Open Source software. The foundation focuses on international automotive educational organisations and their website www.timloto.org is published in Dutch, English and French. Mr. Ep Gernaat, project coordinator of the foundation, explains: We contacted Kroon-Oil, because we were very impressed by their web site. Kroon-Oil was immediately prepared to supply us with their information. This means that our students have easy, clear and fast access to information to help them solve lubricants related technical problems. At the moment we are in the process to develop a lubricants educational matrix, containing information and handouts about different subjects on technical lubrication. This educational matrix should give students and lecturers the possibility to enhance their knowledge about lubricants and lubrication technical issues in a motivating and interactive manner.



YEARS AGO, WE STARTED (FIRST IN THE MARKET) WITH OUR KROON-OIL ON LINE LUBRICATION ADVICE SERVICE. TO BE AND REMAIN IN A POSITION TO ALWAYS OFFER THE MOST UP TO DATE INFORMATION, THE DATABASE IS CONTINUOUSLY UPDATED.

VISIT WWW.KROON-OIL.COM AND EXPERIENCE THE DIFFERENCE!!

The ever-increasing international emission requirements force the engine manufacturers to develop complex engines and exhaust gas treatment systems. In practice these factory installed and very complicated injection and emission gas reduction systems perform well to achieve these objectives of reduced fuel consumption and less harmful exhaust gases, however these systems are extremely sensitive to contamination and deposit formation.

The use of fuels with a compulsory and ever increasing bio-portion possibly in combination with unfavourable driving conditions such as short runs, slow and heavy traffic increases the chances of deposit formation on the very sensitive injectors, which accordingly disrupts the injection pattern. As a result of incomplete combustion soot formation occurs. This results in all kinds of problems of such very sensitive systems. An additional problem is that most vehicle workshops have "implicit faith" in the electronic diagnose. An error message indicates on the computer where the mechanic should look for the problem. However the motor management system is an intelligent unit, which teaches itself that small deviations from the normal pattern are automatically accepted and adjusted by the computer. Only if the motor management system comes to the limits and passes certain specified parameters, a fault code is shown on the screen. This means that there is a wide, invisible area between a 100% correctly performing engine and the condition whereby a fault code is shown.

### **FUEL ADDITIVES**

Kroon-Oil was fortunate to recently acquire the exclusive distributorship in The Netherlands for Marly Fuel Additives and this offers all of us good opportunities. With the professional Marly Red Gamma, we are in a position to solve a lot of these very vague complaints and, equally important, we can avoid that these problems occur at all. We have chosen for an excellent, limited assortment of high quality fuel additives, subdivided into petrol and Diesel preventive maintenance additives and a selection of problem solving additives. In the following section you will find a summary of the Marly range of products that we have available.

### **PREVENTIVE MAINTENANCE**

# Injectie Benzine Ultra Conditioner Injectie Diesel Ultra Conditioner

These two preventive fuel additives are recommended to avoid problems in the future. They improve the quality of the fuel and accordingly:

- Stabilize any old petrol gum deposits in the tank. This
  additive is therefore extremely useful for use in classic
  cars, motor cycles and boats, which hibernate during
  the winter
- Lubricate and clean the various components of the fuel system, such as valves, pumps and injectors
- Excellent and immediate separation of fuel and water
- Slowing down of bacterial growth in the fuel tank of Diesel engines
- Injection Diesel Ultra Conditioner increases the Cetane Number and accordingly this results in better combustion
- Injection Petrol Ultra Conditioner does not increase the Octane Number!

Injection Petrol Ultra Conditioner is suitable for all petrol engines direct or indirect fuel injection systems. Injection Diesel Ultra Conditioner is suitable for all Diesel engines in passenger cars and all heavy duty Diesel engines (trucks / agriculture/ earth moving equipment / marine / industry.

Both products are available in 350 ml bottles. For optimum preventive effects, it is recommended to add the contents of one bottle to the tank at intervals of 7500 kilometres.



### **PROBLEM SOLVERS**

# Injection Petrol Ultra Cleaner, Injection Diesel Ultra Cleaner & Diesel Turbo Ultra Cleaner

These three heavily concentrated Cleaner Products are real problem solvers. Frequently appearing problems, which slowly find their way into the system are:

- Excessive fuel consumption
- Performance losses, i.e. a lower output
- Increased engine noise levels due to Diesel knock
- Irregular stationary running and / or a jerky engine
- Stalling engine when accelerating from standstill
- Increased exhaust emission levels and accordingly the risk of failing the M.O.T. test
- Blocked soot filters
- Lambda probes and or catalysts, which fail for often "inexplicable" reasons

The extreme concentration of cleaning and lubricating properties of **Injection Petrol Ultra Cleaner and Injection Diesel Ultra Cleaner** will remove undesirable deposit formations in the fuel system in an effective manner. As a result of the active cleaning properties the various parts of the injection system are freed from these deposits and the complaints will disappear without the need for expensive repairs.

The third cleaner, **Diesel Turbo Ultra Cleaner** has been developed to solve the consequences of driving over extended periods of time with dirty injectors and accordingly tackle the problem of excessive soot emissions. This soot finds its way into the exhaust system, where it deposits on various components such as the (variable) turbo, oxidation catalysts,



NOx "traps" and soot filters. Soot burns down at temperatures of 600 degrees C and above. Under normal driving conditions the exhaust gases only reach temperatures as high as 350 degrees C. The carbon deposits will therefore never spontaneously burn down. Diesel Turbo Ultra Cleaner contains petro chemical additives that work as a catalyst and reduce the spontaneous ignition temperature of soot to around 200 - 250 degrees C. This means that the soot on the contaminated parts will spontaneously burn down, without the need for expensive repairs.

# "WITH THE PROFESSIONAL MARLY RED GAMMA FUEL ADDITIVES WE HAVE A NICE AND COMPACT ASSORTMENT OF HIGH QUALITY FUEL ADDITIVES"

Problems most often come to light, when the car gets into an emergency situation. Computer read outs often indicate that the problem is due to "turbo pressure problems", and / or "catalyst / soot filter problems". These problems most often occur with modern passenger car Diesel engines with a variable turbo, possibly in combination with the oxidation catalyst and / or the soot filter. Well known problem engines are: VAG TDI, Volvo D5, Fiat 1.9 JTD, Toyota 2.2 D4D and 2.4 D4D engines.

Regretfully, the cause of the soot formation is not tackled with the above treatment. Therefore it is recommended to continue the cleaning process with Injection Diesel Ultra Cleaner. This will ensure optimum results.

All Red Gamma Ultra Cleaner Products are available in 1.5 litre bottles, which quantity should entirely be added to the fuel tank containing a minimum of 25 litres fuel.

The last product in the Red Gamma Additive Line is: **Diesel Ultra Smoke Stop.** This product has been specially developed for use in Diesel engines with an excessive soot emission and can be used to make the car pass the MOT test. To achieve this objective the following procedure is recommended. Add one bottle of 350 ml Diesel Ultra Anti Smoke to the tank and drive briskly over a distance of ap-

proximately 50 kilometres. The soot emission will reduce considerably (approximately by 35%). To obtain optimum results in the (MOT) test it is recommended that the car is presented for the test, while the Diesel Ultra Smoke Stop additive is still in the tank, so please do not fill up with fuel before the test has taken place.





# \E&E \RALLYSPORT

# INFECTED BY A VIRUS

Erik Degeling, our Account Manager for Belgium started his rally career in the early nineties. Despite the fact that Erik had not grown up with rally sport and his father quite "anti speed manifestations" was, he got a job within the service team of a rally-team. He got the rally bug and very soon thereafter Erik bought an Opel Manta, a typical rally car in those years. Back then it was possible to place an antiroll bar into a regular car (used to drive to work) and make it suitable for rally sport. With the help of a friend he got a sponsorship for four rally wheels and so he could sign up for his very first race. In his first rally, Erik became 19th out of a total of 52 participants. This result gave him confidence and

in 1992 he entered the VAS (Flemish Auto Sport Federation) championship. This was the first time that Erik had to perform outside the area where he had taken part in previous rallies. He performed above expectations and he finished in the top 15.

# **OPEL, ERIK'S LOVE FOR THE BRAND**

Around 1994 Erik's rally aspirations became more serious and cooperation with a specialised firm "LB-Tuning" was established and after the acquisition of a very special Opel Manta, promising results followed. In 1994 Erik drove this car both in the VAS Championship and the National Belgium Championship. In 1996 he managed to win the VAS Championship for the first time, together with

# "WHEN ERIK TALKS ABOUT HIS 'OPEL YEARS', HE CANNOT SURPRESS HIS PASSION FOR THE BRAND"

René van der Stichelen, as his co-driver. During the winter of 1997 – 1998, his team prepared an Opel Ascona with 16 V-engine and with this car Erik became VAS Rally Champion in 1999. In the summer of 2000 this Opel Manta was sold and a Ford Cosworth 2WD was its replacement. The Ford Cosworth intermezzo was short and Erik soon went back to his old love: the Opel Manta, but this time a real 400!! When Erik talks about his "Opel years", he cannot suppress his passion for the Opel brand. Regretfully a good quality "rally Opel" is prohibitively expensive, to which he ads that his present cars (see below) cannot be compared with those Opels.

**TOGETHER WITH PARTNER ELS ONS** 

Els Ons made her Rally debut in 1994 during the JFO- rally sprint and in 1996 Els succeeds in winning the rally sprint in Lubbeck (Belgium). In 1997 she wins another few rallies and for a long time she was even in de running for the VAS-title in the rally sprint championship. In 1997 she decides with Erik to start

together and she becomes his co-driver. From that year, they rally together. In 1999 they become VAS-Rally Champion and many more victories followed. All things considered, Els has more victories behind her name than Erik!

## THE RALLY CARS

Currently Erik and Els have two rally cars in their garage. An original Mazda 323 GTR ex-works (Mazda Rally Team Europe) and a Mitsubishi Lancer EVO VI. The Mazda is really a very special car, of which there are only nine cars worldwide. To keep the running costs within a certain range, Erik and Els have chosen for a more economical vehicle: the Mitsubishi Lancer. Since Erik works for Kroon-Oil the rally car is of course completely lubricated with Kroon-Oil lubricants. In the engine Emperol 10W-60 and Racing Gearlube 75W-140 for the transmission. Erik: I am convinced that the combination of these Kroon-Oil products and these extreme operating conditions is performing very well.

The E&E Rallysport Team of our sympathetic Kroon-Oil Account manager in Belgium and his partner Els Ons will take part 'à la carte' in 8 rallies during 2010



# MAZDA 323 GTR

Bramd	MAZDA
Туре	323 GTR ex-works
Division	R
Class	12
Engine power	270 pk
Gearbox	X-Trac 6 Speed
Suspension	Proflex
Rims	Enkei

# Mitsubishi Lancer EVO VI

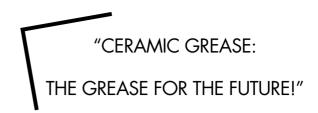
Brand	MITSUBISHI
Туре	Lancer EVO VI ex Jan van
	der Marel
Division	A
Class	8
Engine power	300 pk
Gearbox	Gaetmo Dog Box
Suspension	Proflex
Rims	Racing Dynamics



# **Upgrade Armado Synth NF 10W-40**

Recently we have upgraded our product Armado Synth 10W-40 to Armado Synth NF 10W-40. The main reason for this upgrade is to meet the specification levels of Scania LDF-2 and the upgraded level for Volvo from the Volvo VD-2 to the Volvo VDS-3 specification. As a result of this upgrade, Armada Synth NF 10W-40 is in an even better position to meet the requirements and to lubricate a fleet of vehicles consisting of different modern trucks. The product is recommended for use in Diesel engines with low emission levels (such as EURO 3, 4 and 5), in combination with Diesels fuels with an extremely low sulphur content. Armado Synth NF 10W-40 has also been developed, subject to engine manufacturers instructions, for use in combination with extremely long oil change periods (of 100.000+ kilometres) without adversely affecting engine performance and engine life. Armado Synth NF 10W-40 is suitable for use in all vehicles where the following specifications are called for:

API CI-4, ACEA E4/E7, MB 228.5, MAN M 3277, Volvo VDS-3, Scania LDF-2, MTU TYPE 3, Mack EO-L, DAF Long Drain (approved for), Voith Type A, Renault Truck RLD-2/RXD, Cummins CES 20077/78



# New 600 grams Grease Pack

Recently we have changed our 1 kilogram and 250 gram packs for a 600 gram pack. These 600 grams packs are easier to handle and have been fitted with a handy closing system, whereby the lid remains at all times connected to the pack. The appearance has been made in line with the aerosols and pump spray product range. The labels on the 600-gram packs show at one glance what the application for the product is. The new pack is available with 6 packs in a box.



# Optimisation of the range of product available in 600 gram packs

We have taken the opportunity to scrutinise our grease line, bearing in mind the properties and qualities of the products. This has resulted in the following availability in 600-gram packs.

Part. No.	Description
34069	600 gr pack Kroon-Oil Multi Purpose Lithep Grease EP 2
34070	600 gr pack Kroon-Oil Water Pump Grease MPG3
34071	600 gr pack Kroon-Oil Wheel Bearing Grease NF
34072	600 gr pack Kroon-Oil White Vaseline
34073	600 gr pack Kroon-Oil Ceramic Vet
34074	600 gr pack Kroon-Oil MoS2 Grease 2
34075	600 gr pack Kroon-Oil Atlantic Shipping Grease
34076	600 gr pack Kroon-Oil Complex PTFE White Grease EP2
34077	600 gr pack Kroon-Oil Copper + Plus

For product information and a summary of our total grease product range, we recommend that you consult the web site www.kroon-oil.com

# Ceramic Grease: The grease for the future!

Kroon-Oil now offers this innovative grease in different packs to meet the requirements of the various users of this special grease. Kroon-Oil Ceramic Grease is available in:  $6 \times 600$  gram pack, (parts No.34073),  $12 \times 400$  ml aerosol, (parts No.33745),  $6 \times 200$  ml aerosol (parts No.33080) with a handy application brush.

Ceramic Grease is an extremely high quality assembly paste and a high temperature grease with peak temperatures reaching up to 1.500 degrees C. and high-pressure stability. The product reduces the friction of moving parts and also offers good protection against corrosion. It is an assembly paste without any metal particles and accordingly it offers excellent protection against electrolytic corrosion. Ceramic grease is extremely suitable for assembly and disassembly of: different connections of components of ABS and ASR systems, braking system parts, heating plugs, lambda probes, parts of exhaust systems, bolts and nuts connections, connections of different metals (for instance: steel with aluminium), connections of flanges in industrial applications and components which are subject to extremely high temperatures.



# KROON-OIL GR

### **KROON-OIL AGRI-LOGO**

The specially designed logo for this segment of the market underlines the importance and specific approach of the agricultural sector. The new logo is refreshing, easily recognisable and it associates with agriculture. This logo will appear in all manifestations, which are associated with the agricultural segment, such as publicity material, folders, flyers, the agricultural section on our Kroon-Oil web site, etc. The agri-logo does not replace the usual Kroon-Oil logo, but will be used as an addition in this sector.



# NEW AGRI LINE FOR AGRICULTURE AND EARTHMOVING

Agriculture is a special sector, with special requirements. The operating conditions are often severe and make a heavy demand of your vehicles and equipment. The machinery is an essential part of the operational management, and since vehicles and equipment become more and more complex and the financial investments accordingly larger, it is of great importance to maintain your machinery in top condition. The choice of a lubricant is under these circumstances crucial: only the correct product selection will prevent problems. Kroon-Oil has a long and rich experience in the correct lubrication of agricultural equipment. Our mineral, synthetic and biodegradable products are in daily use for the widest possible range of applications in agriculture, earth moving equipment and the field of road construction. It is Kroon-Oil's objective to continuously maintain and improve the range of products in this segment and offer them to the market.



Recently we have extended our agricultural product line. In addition we have given the most important products a real "agri-look", which makes them very easily recognisable in this segment of the market. The result is that we now have a more distinguished approach in this sector. It is our objective to further develop this line of products in the future and we therefore recommend that you keep an eye on our web site on the subject of Kroon-Oil and agriculture!

# THE UPDATED AGRI-LINE NOW CONSISTS OF:

# AGRI DIESEL CRD+ 15W-40 (NEW!)

Agri Diesel CRD+ 15W-40 is suitable for use in Diesel engines with and without turbo, which operate under the most severe operating conditions in all seasons. The product has a high TBN and is accordingly extremely suitable for use in combination with fuels with a relatively high sulphur contents. The product was specially developed as a high quality long life motor oil for the latest generation agricultural vehicles, which are often fitted with Common Rail Diesel engines.

Specifications: API CI-4/SL, ACEA A3/B3, A3/B4, E7, MB-Approval 228.3/229.1, MAN M3275, Volvo VDS-3, RVI RLD, Mack EO-M Plus, Global DHD-1, Cummins CES 20071/20072/20076/20077, CAT ECF-1-a. Available in: 4 x 5 litres can (34221) - 20 litres pail (33965) - 60 litres drum (33966) - 208 litres drum (33967)

## **KROONTRAK SYNTH 10W-40**

Kroontrak Synth 10W-40 is a modern, semi synthetic STOU (Super Tractor Oil Universal) for use in agriculture and earth moving equipment. Due to its broad range of specifications, Kroontrak Synth 10W-40 is extremely suitable for lubrication of petrol engines and Diesel engines, (including Diesel turbo's), transmission systems (including those with wet brakes) and hydraulic systems.

**Specifications:** API SF/CG-4/GL-4, ACEA E3, MILI-46152C/2104D/2105, Ford M2C159-C/ MF M-1144, ZF TE-ML-06B/07B, Allison C-4, Caterpillar TO-2, Ford M2C86-A/134-D, John Deere J27, MF M-1143, NH 410 B, MB 227.1

**Available in:** 4 x 5 litres can (33712) - 20 litres pail (56030) - 60 litres drum (20040) - 208 litres drum (12280)

### **KROONTRAK SUPER 15W-30**

Kroontrak Super 15W-30 is a multi functional STOU (Super Tractor Oil Universal), specially developed for operating conditions in the agricultural field under normal operating conditions. The diversity of the product makes it suitable for use in petrol and Diesel engines, transmissions (including those with wet brakes) and hydraulic systems of tractors. 

Specifications: API SF/CG-4/GL-4, ACEA E3, MIL-L-46152C/2104D/2105, Ford M2C159-C/MF M-1139B/M-1144, ZF TE-ML-06B/07B, Allison C-4, Caterpillar TO-2, Ford M2C86-A/134-D, John Deere JD14B/JD20A/C/J27, MF M-1127/M-1139/M-1143, NH 410B, MB 227.1

**Available in:** 4 x 5 lt can (34222) - 20 lt pail (35045) - 60 lt drum (10127) - 208 lt drum (10227)

# **AGRIFLUID HT**

Agrifluid HT is a UTTO (Universal Tractor Transmission Oil), specially developed to meet the specific requirements demanded in agriculture. This universal product has been developed as a lubricant for hydraulic and transmission systems of the most frequently used agricultural and road construction equipment.

**Specifications:** Ford M2C134-D, CNH MAT 3525, MF M-1135/M-1143/M-1145, Allison C-3/C-4, John Deere JDM 20A/C, Caterpillar TO-2, API GL-4, ZF TE-ML-03E/05F/06K/17E, Volvo WB 101, Fiat, NH 410B, NH 420A **Available in:** 4 x 5 lt can (34223) - 20 lt pail (36090) - 60 lt drum (11176) - 208 lt drum (11276)

### **AGRIFLUID IH**

Agrifluid IH has been specially developed for performance under heavy operating conditions as experienced in the agricultural sector. This UTTO (Universal Tractor Transmission Oil) is recommended as a lubricant for hydraulic and transmission systems of the most frequently used agricultural and road construction equipment under those conditions. **Specifications:** Ford M2C134-D, MF M-1141/M-1143, Caterpillar TO-2; John Deere JDM 20A/C, API GL-4, IH B plus, Case MS1206, MS1207, Case MAT 3505/MS 1209 suitable for use

**Available in:** 4 x 5 lt can (34224) - 1 x 20 lt pail (36091) - 60 lt drum (11177) - 208 lt drum (11277)

# **SALES KROON-OIL PREMIUMS**

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LUXURY WATCH KROON-OIL FROM € 49,-- NOW € 26,50





SET 2 PCS MUGS KROON-OIL FROM € 12,50 NOW € 7,50



BODYWARMER/JACKET
FROM € 49,-- NOW € 15,-(only available in sizes M & L)



MODERN AMERICAN OVERALL FROM € 49,-- NOW € 17,50



COMFORTABLE FLEECEJACKET FROM € 25,-- NOW € 15,--(only available in size L)