

Members of the ROSE Foundation



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In partnership with



NORA-SA
National Oil Recycling Association
of South Africa

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International Used Oil Refining Trends



Global warming and environmental pollution has intensified our need to recycle our limited natural resources and to extend the lifespan of the manufactured products we use. The lubricants industry is no exception and international developments have seen significant expansions to large refineries in a bid to recycle more used oil back to re-usable base oil.

German oil re-refiner, Puralube, the world's first used oil refinery to use patented HyLube catalytic hydro-processing technology to remove all impurities from the product, recently opened a second refinery in Zeitz Chemical and Industrial Park in Troeglit, Germany at a cost of €45 million. The new refinery, which opened in 2008, has doubled the company's base oil capacity to 100 000 metric tons per year or 1 900 barrels per day.

ROSE believes the international trend of refining back to base oil is exciting, but premature for a developing country: "Puralubes capacity of 100 million litres per year is approximately the capacity ROSE would need if we were to re-refine our total potential collections in SA into base oil. However, at a prohibitive cost of R1,25 billion, the local industry will have to wait to build such a plant."

The ROSE Foundation, established by the lubricants industry to champion the responsible collection and recycling of used oil in South Africa for 15 years, has facilitated the collection of almost one billion litres of used oil to date.

"Our immediate priority is to increase the volume of used oil collected and processed in SA as there is still approximately a third of all used oil that is generated not accounted for," says Andre de Wet, chairman of the ROSE Foundation.

"In South Africa, less than 20% of used oil is re-refined to base oil with most being used as heating fuel."

"Re-refining produces base oils that meet the same quality standards as new oil - equal to virgin lube oils," explains de Wet. "Possible future developments could see recyclers introducing catalytic hydro-processing, the technology required to re-refine used oil but this would, apart from the investment, involve paying a licensing fee."

Despite the limitations of third world country economics, ROSE has succeeded in doing an exceptional job in growing awareness of the need to collect used oil, stimulating collection volumes and auditing emissions. ROSE has also monitored environmental compliance and industry ethics in collection processes through NORA-SA - The National Oil Recycling Association of South Africa, a body created with the support of ROSE, to represent the interests of the collectors and processors of used oil.

"South Africa currently complies with international standards. However, pressure from the European Union is being felt worldwide with the UK having recently introduced a new oil recycling guidance protocol that will clarify regulations for businesses that process waste lubricating oil, and at the same time protect the environment. It is a matter of time before these changes and pressures start to impact us and we need to start thinking about more environmentally friendly processes," concludes de Wet.





ROSE and NORA-SA Moving Forward Strongly



Raj Lochan - CEO, ROSE Foundation



Don Hunter - Chairman, NORA-SA



André de Wet - Chairman, ROSE Board

The ROSE Foundation a private sector success story for the South African lubricants industry, celebrates its 15th year of successful operation in 2009.

ROSE, which was established in 1994 by the major stakeholders in the lubricants industry to enable them to meet their environmental responsibilities for the waste stream they generated, has established a formidable reputation for driving the responsible management of used oil and receives ongoing co-operation and support from industry, government and many allied environmental organisations.

During its tenure as environmental custodian, ROSE has also been responsible for facilitating the establishment of NORA-SA (National Oil Recycling Association of South Africa), which has given oil collectors a forum to self-regulate their industry and address their concerns.

Most recently, Andre de Wet, Chairman of the ROSE Foundation, cites the successful rolling out of the organisation's new strategy, as ROSE's biggest achievement during 2008.

"Particularly pleasing is the inclusion of previously disadvantaged players in the used oil collection industry who now benefit from ROSE's expertise, support and incentives to meet environmental standards."

"We firmly believe that 2008 has been our most successful year to date in terms of improving broad based environmental compliance in the handling of waste streams generated by the lubricants industry. This is as a result of engaging stakeholders who were either not aware of the necessary environmental standards or did not have the resources to be able to comply," says de Wet.

With regards to the Waste Management Bill, ROSE has ensured that it remains in continual contact with its members, communicating the requirements of the Bill and encouraging them to comply, whilst at the same time, assisting government to implement legislation by proactively raising awareness.

"South Africa's collection management system is based on Canadian and UK models and compares extremely favourably

with what happens in the rest of the world," explains Raj Lochan, CEO of the ROSE Foundation.

"In Europe and the USA there has been a move towards producing more base oils rather than industrial fuel from used oil and ROSE believes that the local market will drive our used oil industry in the same direction – a move already initiated by one of our major processors."

"ROSE continually monitors what is happening overseas and we consult with specialists on how we can continue to improve what we do in SA. The most difficult challenge facing us is to ensure responsible environmental behaviour from all our stakeholders. To address this we plan to continue with our audit process using environmental specialists but we also plan to appoint field officers to assist those who do not have access to the necessary expertise to ensure compliance."

Don Hunter, Chairman of NORA-SA, states that the new regulations, although well meaning, have brought several complications and additional costs for smaller collectors who have had to bring their operations up to standard.

"We are, however, still moving forward strongly with 2008 having seen the retention of the original members to NORA-SA and the embedding and entrenching of all the good procedures and monitoring protocols that have been devised and implemented."

Going forward into 2009, NORA-SA is placing a priority on their participation in the continual regulatory change process that is taking place and thus making every effort to ensure that the industry's needs and concerns are taken into account.

"The other main priority," explains Hunter, "is the employ of another full time industry compliance officer to assist in the advancement of standards and controls with much more direct contact with the collectors."

"ROSE and NORA-SA are both looking forward to another successful year whereby we can best represent the lubricants industry and our other stakeholders," concludes Lochan.

ROSE Foundation Facilitates Higher Education for Disadvantaged Students

Tomorrow's environmental champions drawn from disadvantaged backgrounds, are being given the opportunity to go on and study at a tertiary level, thanks to the combined efforts of the Association for Educational Transformation (ASSET) and the ROSE Foundation.

ROSE is currently funding the tuition, accommodation and books for four bursary students while ASSET (an NGO that helps students from disadvantaged communities realise their educational potential), administers the funds.

"ROSE recognises the need for this transformation and we believe that an investment in the future of South Africa means an investment in its youth, particularly those from impoverished homes that otherwise could not afford to go on and study further," says Raj Lochan, CEO of ROSE.

"We hopefully not only enhance the lives of these individual students, but also contribute to the growth and prosperity of society, through this initiative."

ROSE has already successfully sponsored Sakiwo Mzamo and Zukisani Pote who have completed their BTech degrees and gone on to work for Engen and Bison Board respectively.

ROSE also supported Lihle Mqayi in obtaining his Honours in 2008. Lihle was a student with ASSET for his undergraduate years where he completed a BSC in Environment and Water Studies and went on to study further with the help and support of the ROSE Foundation.

Currently, the students studying through ROSE bursaries are: Nwabisa Gigi, Khanyisa Maqina, Saziso Ngalo and Noxolo Sidzuma.

Nwabisa is 18 years old and lives in Khayelitsha with her father, younger brother and sister. Having matriculated as the top achiever in her school, Nwabisa is the first person in her family to attend university and is currently in her second year at the

University of the Western Cape studying Applied Geology. Her major interest is in finding alternative sources of energy for South Africa and her ambition is to become a Petroleum Geologist.

Khanyisa is 19 years old and lives in Khayelitsha with her older brother and sister who is the sole income earner. Like Nwabisa, Khanyisa is the first in her family to study at a tertiary level and is currently in her second year at the Cape Peninsula University of Technology where she is studying Nature Conservation. Her main interest is in Zoology and the conservation of natural parks in South Africa.

Saziso Ngalo is 22 years old and also lives in Khayelitsha with his four brothers and single mother. He is the only one in his family studying at a higher education institution and is currently a third year Environmental Management student at the Cape Peninsula University of Technology, with particular interest in Geographical Information Systems and Environmental Management. Saziso aims to play a role in analysing global warming and climate change.

Noxolo Sidzuma is 21 and lives with her single mother and four sisters in Langa. The only one in her family to study at a higher education institution, Noxolo is currently a third year student at the Cape Peninsula University of Technology where she is studying for a Nature Conservation degree. She looks forward to graduating and devoting her time to protecting the natural environment with a particular interest in water preservation projects. She is also interested in health issues related to the environment.

"All these dedicated young students are passionate about the environment and the communities in which they live. ROSE is proud to be associated with them and their future roles in society," concludes Lochan.



Back L-R: Mr Raj Lochan (ROSE), Sakiwo Mzamo, Zukisani Pote, Lihle Mqayi, Jennifer Court (ASSET). Front L-R: Noxolo Sidzuma, Nwabisa Gigi, Khanyisa Maqina. Insert: Saziso Ngalo

Important Environmental Dates

Environmental Dates:

2 February - World Wetlands Day

20 March - MeatOut Day

21 March - Human Rights Day (SA), and International Day
for the Elimination of Racial Discrimination

17-23 March - National Water Week

22 March - World Water Day

23 March - World Meteorological Day

7 April - World Health Day

22 April - Earth Day

4-10 May - National Bird Week

22 May - International Day for Biological Diversity

Approved Processors

Oil Separation Sales & Services (Pty) Ltd	Germiston	011 824 7580
BME	Delmas	013 665 1860
Exol Oil Refinery (Pty) Ltd	Krugersdorp	011 769 2257
PPC Lime Limited	Limeacres	053 385 8200
The Old Oil Man	Krugersdorp	011 762 2557
FFS Refiners (Pty) Ltd	Durban	031 465 1466
FFS Refiners (Pty) Ltd	Port Elizabeth	082 321 7267
FFS Refiners (Pty) Ltd	Pietermaritzburg	033 398 1651
FFS Refiners (Pty) Ltd	Vissershok	021 557 5301
FFS Refiners (Pty) Ltd	Chloorkop	011 976 2198
Green Mamba Oil Refinery	Centurion	012 661 9888
Kudu Oils	Nelspruit	013 751 2362

Some Approved Collectors

Oil Separation Sales & Services (Pty) Ltd	Germiston	011 824 7580
Oil-X-Oil (Pty) Ltd	Chloorkop	011 976 2198
Kia Ora Oils	Nelspruit	082 554 1687
Kudu Oils	Nelspruit	013 751 2362
Euro-Blitz CC	KZN	031 465 0354
Oil Recovery Services	KZN	082 801 4472
Dallas Oil	KZN	084 358 8346
Used Oils	W Cape	082 658 6249
Oil Collection	W Cape	082 784 5623
JJ Oil Removals	W Cape	082 940 8258
Cape Waste Oil	W Cape	083 270 5834
Oilkol (Pty) Ltd	National	086 110 1961
Green Mamba	Gauteng	012 661 9888
Automotive Waste	Gauteng	082 772 7029

Environmentally Approved Storage Facilities

Cape Town	Cnr Lood & Viben Streets, Brackenfell, 7560	021 982 5267
Port Elizabeth	61 Paterson Road, North End, 6001	041 484 1536
Durban	103 Vintner Place, Prospecton, 4110	031 902 8560
Durban	39 Karrim Lane, Clairwood, 4052	031 465 0354
Middelburg	10 Celsius Street, Middelburg Industrial Area, 1055	013 246 2033
Germiston	27 Profab Crescent, Delville, Ext 4, Germiston, 1400	011 824 7580

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