

Members of the  
ROSE Foundation



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## Drum Re-conditioning

The Waste Act No. 59 of 2008 became effective on the 1st July 2009. Entrenched in the Act is the principle of Extended Producer Responsibility (EPR), greases, oil cans and drums could potentially be the next target for environmentalists in the drive to reduce oil pollution. ROSE, in its mission to extend its influence over oil-related waste in ensuring Extended Producer Responsibility, has engaged with the drum re-conditioning industry trying to reduce the environmental degradation where oil is concerned.

In the normal course of business, ROSE members sell products in various package sizes to their customers either directly or through agents and partners. When these packages become empty they have to be disposed of responsibly. Drum re-conditioners collect empty drums and "re-condition" them for re-sale back into the market either to lubricant fillers or other users.

A recent survey shows that none of the drum re-conditioners are fully compliant. However, some drum re-conditioners are preparing to certify themselves with the ISO 14001 environmental management system.

As a first step to make these small businesses compliant, ROSE has started independent audits on participating plants around the country to develop a baseline on compliance.

It has been encouraging to learn that the drum re-conditioners are eager to comply and participate with ROSE in improving environmental compliance. ROSE plans to facilitate the preparation of an incentive based model with the industry role-players. ROSE believes it is imperative that the Chemical Allied Industry Association (CAIA) becomes part of this initiative as most of their members sell chemicals in drums which are later re-conditioned by these plants.

ROSE has already conducted independent audits on drum re-conditioner plants in Cape Town, Durban and Johannesburg. "From these audits it can be concluded that



Drums to be re-conditioned

environmental compliance needs to be addressed urgently," comments ROSE Foundation CEO, Raj Lochan.

In an effort to organise the industry and make the role-players realise that compliance will be mandatory, many workshops have been held to canvas the support of the respective businesses.

To further ensure compliance, ROSE members' customers and their own blend plants will be prevailed upon to use only approved re-conditioners.

Lochan maintains that the environmental chain must be incentivised in various ways to facilitate compliance. One method would be to put a toll on new drums manufactured and this income could be used to achieve compliance standards.

### Extended Producer Responsibility highlights

The overall purpose of the new Waste Act is to protect health, wellbeing, and the environment by providing reasonable measures for minimising consumption of natural resources, avoiding or minimising of the generation of waste and reducing, collecting, reusing, recycling, disposing or recovering waste. It views treating and disposal of waste as a last resort, but recognises the need for sustainability and economic factors.

This "cradle to the grave approach" on waste management may require:

- Waste minimisation programmes;
- Financial arrangements to promote waste reduction, reuse, recycling and recovery;
- Awareness programmes to inform the public of the impact of waste.
- Specifying the requirements, implementation and operation of an EPR programme.
- Specifying the percentage of products that must be recovered.
- Requiring the producer of a specified product to carry out a life cycle assessment in accordance with waste standards. Requirements in respect of the design, composition or production of a product or packaging, including clean production measures and packaging specifications.



## Grease Recycling

Sludge, tar, grease and oil are a given aspect of the “dirty” work of manufacturing and mining. However, in terms of the Waste Act, these substances are serious pollutants and it has become the responsibility of producers to reduce, recycle and eliminate all polluted waste streams.

Oil Separation Solutions Sales & Services (OSS), an oil recovery and recycling company that specialises in on-site and off-site recycling and remediation of hydrocarbon-contaminated soil, sludge and industrial waste streams and bioremediation of oil contaminated soil.

In its continuing efforts to develop better turn-key solutions, OSS has recently perfected a process for reclaiming valuable resources from oil polluted waste streams, which enables an increase in the volumes of used oil collected for recycling in South Africa from these waste streams, whilst at the same time protects the environment, prevents oil pollution and brings “zero waste” goals even closer.

“Our RS<sup>2</sup> technology is capable of treating sludge from various industrial operations, as well as industrial toxic solid waste, e.g. heavy sludge, tar waste, spent grease, all contaminated with high concentrations of a wide range of volatile and non-volatile compounds including gasoline, diesel, heavy oils, hydrocarbons,

solvents and other recyclable resources,” explains Leonard Bianchina Managing Director of OSS.

“Examples of waste streams suited to RS<sup>2</sup> treatment are refinery sludge and tar, spent grease from various industrial operations, sludge from steel production and from chemical and paint operations. OSS services, amongst others, the mining, automotive, food manufacturing and general industries as well as installations such as power stations.”

Bianchina explains that spent grease generally contains 90% oils, which the RS<sup>2</sup> can recover and re-refine to a high value product. The RS<sup>2</sup> system is a highly efficient thermal process, which is not incineration, and provides the following key products:

“OSS offers this turn-key solution either on-site to customers’ industrial operations and/or off-site to OSS permitted facilities in an attempt bid to maximise the potential of our RS2 technology and to further protect and prevent the pollution of our environment,” concludes Bianchina.

For more information contact Oil Separation Solutions Sales & Services on 011 824 7580.



RS<sup>2</sup> treatment facility at OSS



Grease product after treatment through RS<sup>2</sup>

## IBM's Smarter Girls Learn About Recycling for a Smarter Planet

Technology giant IBM ran a camp for previously disadvantaged girls in July, with the aim of encouraging an interest in technology and mathematics. Their theme was “Smarter Girls, Smarter Planet”, which centred around changing a mind set about conserving the planet and encouraging awareness and innovative ways to reduce waste and use energy more efficiently.

The ROSE Foundation, together with FFS Refiners, supported this worthwhile initiative, by inviting the group to tour the Chloorkop plant where the girls were shown around the depot and explained why there was an environmental need to recycle oil.

The visit is keeping in line NORA-SA's and ROSE's commitment to encourage young learners to become aware of the environmental hazards of used oil when disposed of irresponsibly.



Female learners brought together by IBM, visiting the FFS Refiners Chloorkop facility

## Environmental Awards - FFS Pietermaritzburg

For two years in a row, FFS Refiners PMB branch has taken the honours in the annual FFS Environmental Awards. Stephan Roeloffse and his team at FFS Pietermaritzburg have shown their colleagues that with the combination of dedication, perseverance and hard work, they can be the best.

In the recent environmental compliance audit conducted, on behalf of the ROSE Foundation by WSP Environment & Energy, among FFS Refiners' branches countrywide, Pietermaritzburg staff came out tops. They were again awarded first prize for their commitment to legal compliance and environmental improvement for plant operations.

At a celebratory event, a shield of honour was presented to FFS Pietermaritzburg and its employees were rewarded for their efforts with fleece-lined jackets as mementoes to mark the occasion.

Priya Govender, Environmental Manager at FFS Refiners says, "This plant has shown what commitment and dedication can achieve and the Pietermaritzburg staff are certainly worthy winners of this prestigious award."

ROSE CEO Raj Lochan agreed: "We will continually support and recognise companies and staff for their contribution to the environment, and we commend Stephan's team on their worthy achievement."

The challenge is thrown open to fellow colleagues at the other FFS Refiners plants around the country.



Stephan Roeloffse (extreme right) together with his team and their environmental award

## Rollout of Bulking Points in KZN

ROSE's mission of managing used lubricating oil in an environmentally responsible manner, was enhanced recently with the opening of new state-of-the-art bulking storage facility in KwaZulu Natal. Vinko's Oil, owned by Vinko Coetzee and operating from Weenen near Estcourt, is the first recipient of the storage facilities made available to NORA-SA collectors by the ROSE Foundation.

On a permitted site in Weenen, two tanks of 23 000 litres each, two tanks of 4 500 litres each, plus required piping and pumps, have been installed and placed under cover.

Says Vinko Coetzee, "This truly shows ROSE's commitment to the NORA-SA collectors and their seriousness about ensuring a pollution-free environment".

And at the FFS Refiners plant in Pietermaritzburg, additional tankage has been provided by ROSE to complement the existing facility, so collectors can drop off oil at their convenience instead of driving all the way to the Durban plant.

In total, at FFS Refiners, an additional 150 000 litres of tank capacity have been provided, 1 x 80 000-litre and 6 x 12 000-litre tanks. Automatic tank gouging ensures that after hours, deliveries can be accommodated.

The ROSE philosophy of providing tanks in remote areas encourages the collection of used oil in less accessible regions and benefits smaller collectors who incur high transport costs in relation to the volumes collected.

ROSE would like to commend the CEO of FFS Refiners, Don Hunter who has pledged his ongoing commitment to the lubricant industry by providing infrastructural support and plant facilities for the collection and processing of used oil.



Bulking facility, Weenen with Andre de Wet, Chairman of ROSE at the opening



Bulking facility FFS Refiners in Pietermaritzburg, from L to R, Stephan Roeloffse, Don Hunter (FFS Refiners), Andre de Wet and Teddy Manduli (ROSE directors)

## 2009 Environmental Dates:

**2 February** - World Wetland Day  
**17-23 March** - National Water Week  
**22 March** - World Day for Water  
**7 April** - World Health Day  
**22 April** - Earth Day  
**4-9 May** - National Bird Week  
**22 May** - International Day for Biological Diversity  
**5 June** - World Environment Day  
**1-5 June** - National Environmental Week  
**17 June** - World Day to Combat Desertification and Drought  
**11 July** - World Population Day  
**16-22 July** - World Water Week  
**1 September** - Arbor Day  
**1-7 September** - National Arbor Week  
**15-20 September** - National Clean-up week

**19 September** - International Coastal Cleanup Day  
**13-17 September** - National Marine Week  
**16 September** - International Day for the Preservation of the Ozone Layer  
**18 September** - World Water Monitoring Day  
**18-20 September** - Clean Up the World Campaign  
**2 October** - World Farm Animal Day  
**4 October** - World Animal Day  
**5 October** - World Habitat Day  
**5-9 October** - National Weed-buster Week  
**12-16 October** - National Marine Week  
**6 November** - International Day for Preventing the Exploitation of the Environment in War and Armed Conflict  
**28 November** - Birding Big Day  
**11 December** - International Mountain Day

## Drop-off Points:

Do-It-Yourself (DIY) motorists are encouraged to use any of the sites below to drop off their used motor oil at the respective Municipal Garden Refuse sites.

**TSHWANE** - Maunde Rd, Pretoria West, **Kwaggastrand**; Stefanus Schoeman Rd, **Valhalla**; Rigel Ave South (Delmas Rd), **Garstklouf**; Roslyne, **Onderstepoort** and Hans Strydom North Nelmapuis, **Hatherley**.

**JOHANNESBURG** - Ballyclare Drive, **Bryanston Ext 7**; 5th Avenue, **Bez-Valley**; Club Street, **Linksfield**; Cnr Smith and 5th Avenue, **Fairland**; Melrose Street, **Syferfontein**; Pine Road, **Norwood**; Jim Fouche Road, **Panorama**; Victory Road, **Victory Park Estate**; Johannes Road, **Waterval**; Woodlands Drive, **Woodmead Ext 15**; Bangalore Drive, **Lenasia Ext 11**; Cedar Road, **Kyalami**; Dale Road, **Kyalami**; East Road, **Klipriviersberg**; Flamingo Street, **Lenasia Ext 6**; Cnr Impala & Vereeniging Road, **Rietvlei**; Royal Park Drive, **Mondeor**; Heerengracht Road, **Eldorado Park Ext 4**; Makhaya Avenue, **Protea North**; Sofasonke Street, **Orlando**; Bellona Road, **Middelfontein**; Circle Crescent, **Eldorado Park Ext 5**; Cnr Harry & Rifle Range Road, **Robertsam**; Penny Road, **Roodepoort West** and Khama Street, **Soweto**.

**eTEKWENI** - Bellair Road, **Cato Manor**; Roadhouse Crescent, **Riverside**; Tara Road, **Bluff**; Glanville Road, **Montclair**; Canehaven Drive, **Canehaven** and Mount Edgecombe Drive, **Mount Edgecombe**.

**CAPE TOWN** - Potsdam Road, **Killarney**; Main Road, **Hout Bay**; Kronendal Recycling Centre, Main Road, **Hout Bay**; Huguenot Primary School, Cnr AZ Berman & Huguenot Avenue, **Mitchells Plain**; Collect-A-Can, Fisher Avenue, **Epping**; Rosmead Garden Site, Rosmead Avenue, **Wynberg**; Somerseset West, Sir Lowry's Pass Road, **Gordons Bay**; Main Road, **Kommetjie**.

**BURGERSFORT** - 3 Industrial Road, **Burgersfort**.

**MIDDELBURG** - 10 Celcius Street, **Middelburg Industrial Area**.

For more information call the ROSE Foundation.



## Approved Processors

Oil Separation Sales & Services (Pty) Ltd  
 BME  
 Exol Oil Refinery (Pty) Ltd  
 PPC Lime Limited  
 The Old Oil Man  
 FFS Refiners (Pty) Ltd  
 FFS Refiners (Pty) Ltd  
 FFS Refiners (Pty) Ltd  
 FFS Refiners (Pty) Ltd  
 FFS Refiners (Pty) Ltd  
 FFS Refiners (Pty) Ltd  
 Green Mamba Oil Refinery  
 Kudu Oils

Germiston 011 824 7580  
 Delmas 013 665 1850  
 Krugersdorp 011 769 2257  
 Limeacres 053 385 8200  
 Krugersdorp 011 762 2557  
 Durban 031 465 1466  
 Port Elizabeth 082 321 7267  
 Pietermaritzburg 033 398 1651  
 Vissershok 021 557 5301  
 Chloorkop 011 976 2198  
 Centurion 012 661 9888  
 Nelspruit 013 751 2362

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