



OXYTANE

# A Proposal to the Ethiopian Government: Implementation of Oxytane for National Benefit

OXYTANE INTERNATIONAL LIMITED – GROUP (UK MANUFACTURER)  
PT OXYTANE MITRA INDONESIA (INDONESIAN MANUFACTURER)

Presented by:

MULTIVERSE ENTERPRISE

More Information



[www.oxytane.id](http://www.oxytane.id)



MULTIVERSE



# KEY BENEFITS

Oxytane Fuel Treatment can revolutionize Ethiopia's fuel supply chain with far-reaching benefits. Oxytane's collaboration with Nigeria's Federal Executive Council and expansion across 17 countries in and around West African nations demonstrates its credibility and transformative potential.



**Aligns with sustainable energy policies and strengthens energy independence.**



**Enhances fuel efficiency, cuts operational expenses, and drives clean energy investments.**



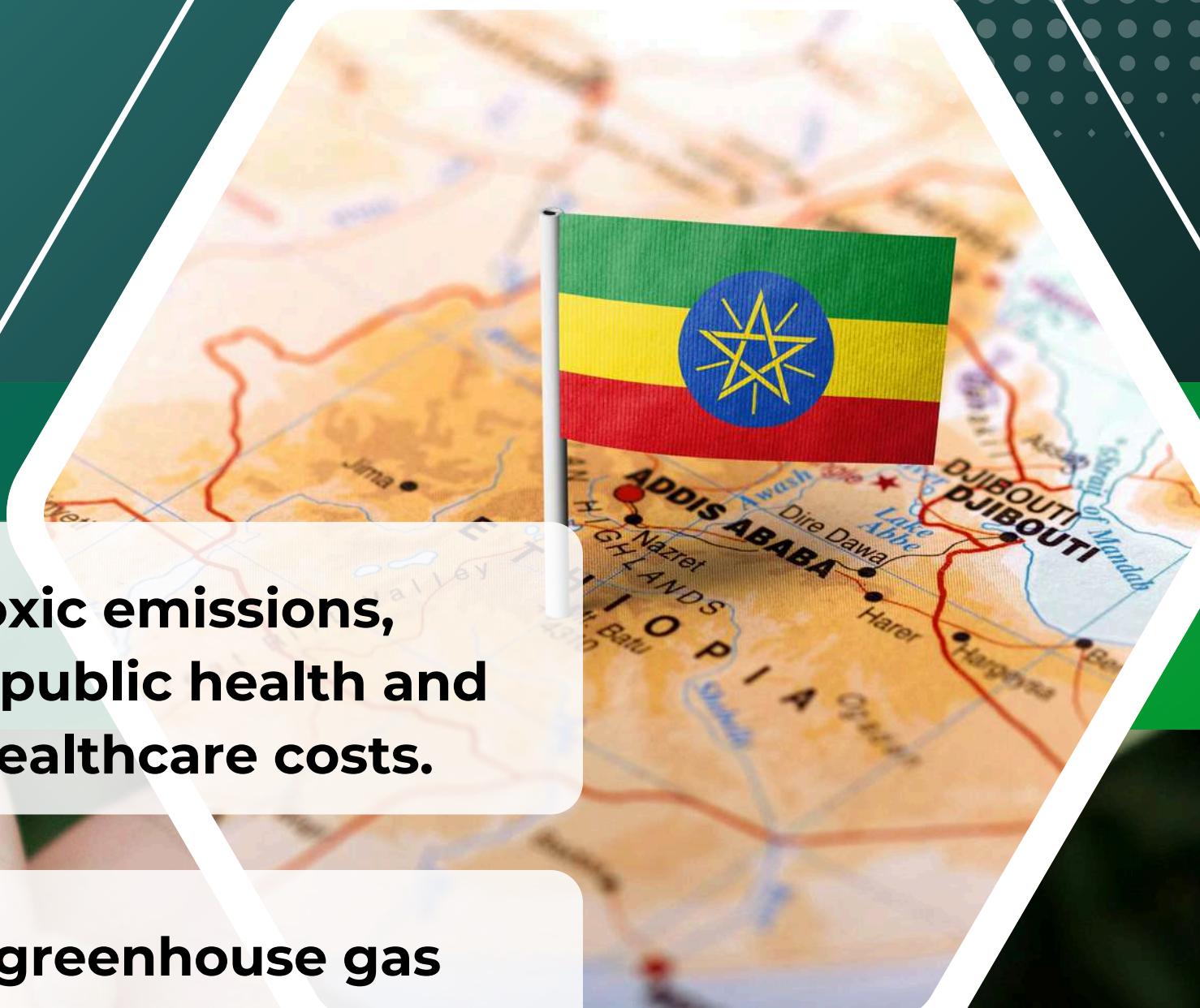
**Elevates citizens' quality of life through inclusive and informed policies.**



**Reduces toxic emissions, improving public health and lowering healthcare costs.**



**Minimizes greenhouse gas emissions and fosters ecological sustainability.**



# Ethiopia's Decarbonization Revolution

## Position Ethiopia as a Global Leader

- Announce a pioneering decarbonization initiative using Oxytane.
- Achieve 2040 emissions standards 16 years ahead of UN advocated aspirations.

## Unlock the Carbon Credit Potential

- Hire global audit leaders (SGS, Bureau Veritas, Intertek) to certify reductions.
- Can Position Ethiopia as an environmental model for sustainable innovation and carbon market readiness.

**“Approve Oxytane now and make Ethiopia the regional face of decarbonization!”**



# Capitalizing on Carbon Credit Opportunities

## Fuel Statistics:

- A country consumes millions of liters of fuel daily, leading to billions of liters being consumed annually.
- Immediate implementation of Oxytane means significant reductions in emissions on fuel saved and fuel consumed.

## Convert Emissions reductions into Credits:

- Secure measurable Carbon Credits by reducing emissions from the entire fuel supply chain.
- Use Carbon Credits to fund further national sustainability initiatives.



**“Adopt Oxytane. Certify Emissions. Claim Carbon Credits. Fuel Ethiopia’s Economic Growth!”**

# Cost-Effective Savings with Oxytane

## Fuel Efficiency Boost:

Increases fuel economy by minimum 25% plus, reducing fuel imports by the same percentage annually and cutting foreign currency payments proportionally.



## Budget Relief:

Significantly reduces government fuel expenses across sectors like military, police, municipal services, and power generation, freeing funds for other priorities.

## Affordable and Profitable:

Priced at 10% of fuel costs, Oxytane delivers a minimum 15% net saving or more, making it a self-funding solution.

## Engine Restoration:

Cleans and restores engines, reducing maintenance costs and improving performance beyond original manufacturer specifications.



# Boost Ethiopia's Business Economy with Oxytane

- **Fuel Savings for Citizens**

Improved fuel economy lowers individual fuel costs, leaving citizens with more disposable income to spend on other items to stimulate the economy.

- **Industry Benefits**

Telecom companies operating diesel generators on their many thousand of cell towers can enjoy extended runtime, reducing refueling frequency and cutting logistics costs.

- **A National Stimulus**

Government adoption of Oxytane acts as an economic boost, driving cost efficiency across industries and households alike.





**OXYTANE converts any fuel consumed  
in any vehicle or engine to 2040  
emissions compliant standards  
according to UN benchmarks and  
regulatory standards.**

**OXYTANE increases fuel economy in  
any vehicle or engine using any fuel  
and is proven to be cost saving and  
cost effective and increases  
operating profits.**



# Oxytane's Track Record - Supported by Independent Testing and Official Documents

Oxytane has undergone rigorous testing from reputable organizations across diverse applications worldwide. It is supported by extensive data, including independent test reports from renowned institutions such as Intertek, and official approvals from regulatory authorities in Nigeria, including the Standards Organization of Nigeria (SON) and the Nigerian Midstream & Downstream Petroleum Regulatory Authority & NESREA. Across all vehicles and engines tested, the results consistently demonstrated positive and conclusive improvements in fuel economy and emissions reductions.



# Testing and Official Documents



Nigerian Upstream Petroleum  
Regulatory Commission.  
(NUPRC)

5. By this letter, OAIL is encouraged to approach relevant upstream operators and service providers to market the Product and build wide acceptance for the additive in the industry.
6. While commending your company for its sustainability drive, please accept the assurances of the Commission Chief Executive's high regards.

**Engr. E. Amadasu, FNSE**  
for: Commission Chief Executive



## NIGERIAN UPSTREAM PETROLEUM REGULATORY COMMISSION (NUPRC)

7, Sylvester Ugoh Crescent, Jabi, Abuja FCT. P.M.B. 399, Garki, Abuja.  
+234 (9) 903 2000 [nuprc@nuprc.gov.ng](mailto:nuprc@nuprc.gov.ng) [www.nuprc.gov.ng](http://www.nuprc.gov.ng)

NUPRC/D&P/ET&CM/GEN-2/VOL. I/101

24<sup>th</sup> June 2024

The CEO/Managing Director  
Oxytane Africa Investment Ltd,  
No. 4 Mike Akhigbe Street  
Jabi,  
Abuja.

Dear Sir

**LETTER OF CONSENT AND NO-OBJECTION ON THE USE OF OXYTANE FOR THE PURPOSE OF CARBON EMISSION REDUCTION/FUEL EFFICIENCY BENEFITS IN THE UPSTREAM SECTOR**

Reference is made to your letter dated on 14<sup>th</sup> June 2024, on the above subject and our correspondence to Nigerian Midstream and Downstream Petroleum Regulatory Authority (NMDPRA) with reference NUPRC/D&P/ET&CM/GEN-2/VOL.1/52 dated 5<sup>th</sup> March 2024 transmitting your proposal for their evaluation given its direct relevance to NMDPRA's operations.

2. The Commission has noted from your submission that the NMDPRA has granted Oxytane Africa Investment Limited (OAIL) approval for the use of Oxytane, your patented fuel treatment product, within the Nigerian midstream and downstream oil and gas sector, recognizing the potential of Oxytane to enhance fuel efficiency and significantly reduce emissions.
3. Furthermore, the Commission notes the approval from the Standards Organisation of Nigeria (SON) and international certification bodies for Oxytane as a fuel additive.
4. In light of the foregoing, we are pleased to convey the Commission's consent for the use of Oxytane in upstream operations for carbon emissions reduction, contingent upon the approval of the NMDPRA.



# Testing and Official Documents

Nigerian Midstream &  
Downstream Petroleum  
Regulatory Authority Approval

08–04–2024



## NIGERIAN MIDSTREAM AND DOWNSTREAM PETROLEUM REGULATORY AUTHORITY

Plot 1012, Cadastral Zone A00, Central Business District, P.M.B, 609, Garki GPO, Abuja, Nigeria.  
+234 (0) 9-460-5033 | authorityccsm@nmdpra.gov.ng | www.nmdpra.gov.ng

Ref: NMDPRA/HQ/HSEC.04/2024/066

Date: 8<sup>th</sup> April 2024

### The Managing Director/CEO

Oxytane Africa Investment Limited  
No. 44 Mike Akhigbe Street, Jabi  
Abuja FCT.

Dear Sir,

### APPROVAL FOR THE USE OF OXYTANE AS A FUEL TREATMENT PRODUCT IN THE NIGERIAN MIDSTREAM AND DOWNSTREAM OIL AND GAS INDUSTRY

Reference is made to your letter of 13<sup>th</sup> March 2024, on the above subject.

2. Following the technical presentation made by your team, review of the product SDS and other supporting document submitted, we are pleased to inform you that the product (Oxytane) has been approved for use as fuel treatment additive.

3. However, this approval is issued with the following conditions:

- I. The use of this fuel treatment product (**Oxytane**) shall be in compliance with provisions of the relevant sections of Petroleum Industry Act (PIA) 2021 as well as the Midstream and Downstream Environmental Regulations, 2023.
- II. Any changes made to the composition of this product or reformulation of same either wholly or partially without the consent of Authority, automatically renders this approval invalid. You are therefore advised to notify the NMDPRA of such changes or reformulation for the purpose of re-certification of the product, prior to further usage.
- III. The product is to be used as 1: 5000 (Oxytane: Fuel) ratio.
- IV. The approval covers introduction of the product to fuel at point use only. i.e directly into the vehicle, generators etc. fuel tanks and should not be added to fuel meant to be stored in storage tanks for long time.
- V. The validity of this approval is for a period of three (3) years from the date of this letter and is subject to periodic review(s) by the Authority as deemed necessary.

4. Kindly ensure that quarterly inventory of this product sold by your company is submitted in soft copy to the Authority via the mail: hsec@nmdpra.gov.ng

5. Finally, you are to ensure that under no condition shall this product be sold outside the validity period of its approval.

Yours faithfully,

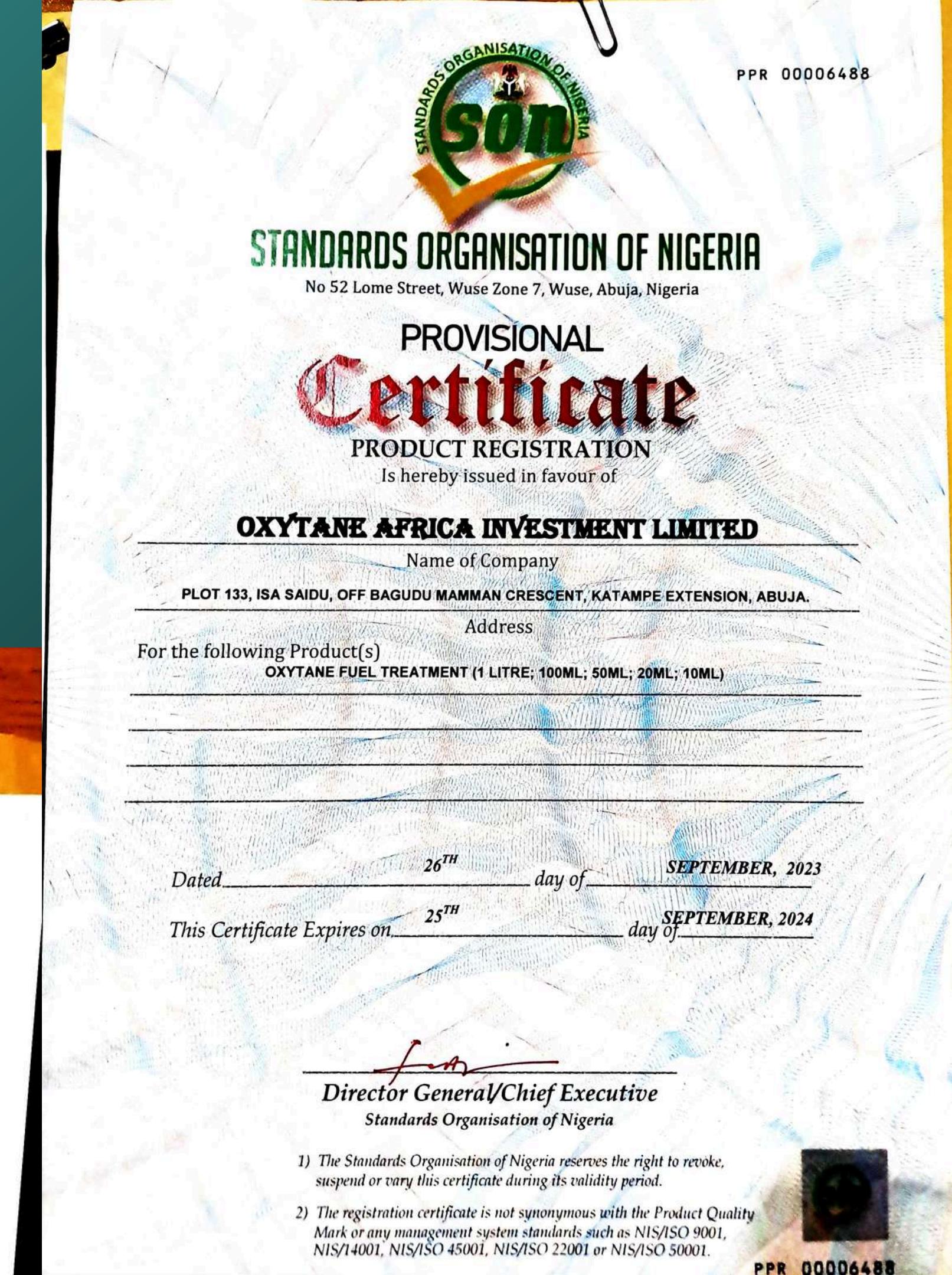
**Mustapha Lamorde** PhD, R. Engr., MNSE, CEngr.

Executive Director  
Health Safety Environmental & Community  
For: Authority Chief Executive

# Testing and Official Documents



Standards Organization of Nigeria (SON) 26-09-2023





OFFICE OF THE DIRECTOR GENERAL  
NATIONAL ENVIRONMENTAL STANDARDS AND  
REGULATIONS ENFORCEMENT AGENCY

...ensuring a cleaner and healthier environment for Nigerians

All correspondences to: Director General / Chief Executive Officer

NESREA/DG/44/I/45

24<sup>th</sup> October, 2024

# Testing and Official Documents



National Environmental Standards &  
Regulations Enforcement Agency  
(Certificate of Accreditation) 10-10-2024

5. We encourage you to continue your engagement with relevant government bodies, as NESREA remains available to provide guidance and technical expertise as needed to ensure that your product aligns with Nigeria's environmental standards and regulations.
6. We look forward to continued collaboration in advancing Nigeria's sustainable development and environmental protection goals.
7. Please, accept the assurances of my highest regards.

Dr. Innocent B. Barikor,  
Director General/CEO.

**ATTESTATION FOR THE USE OF OXYTANE IN REDUCING  
CARBON EMISSIONS AND IMPROVING FUEL EFFICIENCY IN  
THE INDUSTRIAL SECTOR**

With reference to your proposal of 4<sup>th</sup> October 2024, the technical presentation by your team and the consequential product review process by our Agency, NESREA is pleased to inform you of our endorsement of Oxytane, as an "ECO-FRIENDLY" solution for reducing carbon emissions and enhancing fuel efficiency in Nigeria's industrial sector. As an Agency we acknowledge the value of innovations like Oxytane that contribute to the reduction of greenhouse gas emissions, improved air quality, and the promotion of sustainable industrial practices.

As the regulatory body responsible for enforcing environmental laws and standards, particularly under the National Environmental (Air Quality Control) Regulations, NESREA recognizes that technologies contributing to carbon reduction align with Nigeria's commitments under the Paris Agreement and the country's broader climate change mitigation goals.

Furthermore, we are pleased to attest to its potential as a tangible, measurable, and sustainable solution for reducing greenhouse gas emissions. We commend your proactive efforts to partner with the Federal Government, particularly through the Presidential Committee on Climate Action and Green Economic Solutions, to explore pathways for carbon credit generation as a source of foreign exchange revenue.

# Testing and Official Documents

**Nigerian Environmental Standards & Regulation Enforcement Agency,  
Partnership & Consultancy 24-10-2024**

advise on the best times and methods for selling credits maximizing the financial benefits for the Agency/Ministry of Environment.

vii) **STAKEHOLDERS ENGAGEMENT:** OAIL in partnership with NESREA will often help in communicating with stakeholders about the Federal Government effort through the Federal Ministry of Environment and NESREA on carbon reduction efforts and the benefits of participating in carbon markets.

viii) Oxytane Africa Investment Limited is expected to assist in sourcing funds for the sustainability of the partnership and the project.

ix) Oxytane Africa Investment Limited shall assist in building capacity of the Agency in carbon credit market.

3. Please, accept the assurances of my warmest regards.



**Dr. Innocent B. Barikor,**  
Director General/CEO.



**OFFICE OF THE DIRECTOR GENERAL  
NATIONAL ENVIRONMENTAL STANDARDS AND  
REGULATIONS ENFORCEMENT AGENCY**

*...ensuring a cleaner and healthier environment for Nigerians*

All correspondences to: Director General / Chief Executive Officer

**NESREA/DG/44/I/45**

24<sup>th</sup> October, 2024

**The Managing Director/Chief Executive Officer,**  
Oxytane Africa Investment Limited,  
No. 44 Mike Akhigbe,  
Jabi, F.C.T Abuja.

Attention: Obriki Tamarankro Juliano

Sir,

**PROPOSAL FOR A PARTNERSHIP/CONSULTANCY ON SETTING UP  
AND MANAGEMENT OF AN EFFECTIVE CARBON CREDIT SCHEME FOR  
FEDERAL GOVERNMENT THROUGH FEDERAL MINISTRY OF  
ENVIRONMENT**

Following a detailed study of the submissions in respect of the above subject-matter, it is pertinent to note that the proposal touches on the area of emission control, in which NESREA has issued extant Regulations and birthed a number of initiatives (like NVECP, NGECP, IEMS,) and the Agency, working in partnership, could aggregate data from such existing and new emission programs to form or support the foundational basis for Nigeria's entry to the carbon credit scheme, which is strategically beneficial.

2. Consequently, we are pleased to formally convey the approval of your proposal for partnership/consultancy engagement to Oxytane Africa Investment Limited to provide services on carbon emission reductions and carbon credit generation for sales and claims in the compliance market for the Agency which is representing the Federal Ministry of Environment.

# Testing and Official Documents



National Environmental  
Standards & Regulations  
Enforcement Agency  
(Certificate of Accreditation)  
10-10-2024

**National Environmental Standards and Regulations  
Enforcement Agency**

## Certificate of Accreditation

NO:1728565669

This is to certify that

**OXYTANE AFRICA INVESTMENT LTD**

with C.A.C registration No 7116317

has been accredited by NESREA to carry out environmental consultancy in the following area(s):

1. Environmental Technology
2. Waste Management
3. Environmental Audit
4. Environmental Studies

Date of Issue : 10/10/2024

Expiry : 10/10/2025



Director General/CEO

*Note that you are expected to  
operate within the extant laws,  
regulations and guidelines*



# Testing and Official Documents



Intertek Emissions reduction report, testing conducted on a EURO 2 diesel vehicle, a 71% reduction of carbon emissions was reported after consuming 1 full tank of fuel. 02-10-2023



## SUMMARY OF TEST

SAMPLE NO.  
JOB NO.  
COMPANY

: PTR 10419 (Diesel B35 with & without Oxytane)  
: PC 230964  
: PT Oxytane Mitra Indonesia (Oxytane International Group)

**SAMPLE DESCRIPTION:**

Vehicle Specification : Mitsubishi/Colt Diesel 2020 FE74HD K (4X2) M/T Light Truck Box - 3908 CC- Euro 2  
License Plat : D 8868 FN  
Number Identity : MHMFE74PPLK21635  
Number Machine : 4D34TU98039  
Gross Vehicle Weight : 3.91 tons  
Fuel System : Using B35  
Testing Date : 16-09-2023 & 19-09-2023

The above sample was tested on Sept-2023 in accordance with the test method(s) stipulated, with the result(s) as follows:

TEST	METHODS	UNIT	SPECIFICATION	OPACITY THRESHOLD	RESULT		REDUCTION (%)
					NO OXYTANE	ADD OXYTANE	
Opacity	SNI 09-7118.2-2005	% HSU	Report	50	8.5	2.6	69
SO <sub>x</sub> , Sulfur Oxide	SNI 09-7118.1-2005	ppm	Report	-	55	21	62
NO <sub>x</sub> , Nitrogen Oxide	SNI 09-7118.1-2005	ppm	Report	-	48	17	65
C	SNI 09-7118.1-2005	ppm	Report	-	9	1	89
AVERAGE							71

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# Testing and Official Documents



Intertek Emissions reduction report, testing conducted on a EURO 4 diesel vehicle, a 52% reduction of carbon emissions was reported after consuming 1 full tank of fuel. 02-10-2023



## SUMMARY OF TEST

SAMPLE NO. : PTR 10419 (Dexlite with & without Oxytane)  
JOB NO. : PC 230964  
COMPANY : PT Oxytane Mitra Indonesia (Oxytane International Group)

**SAMPLE DESCRIPTION:**  
Vehicle Specification : Mitsubishi Canter 2022 FE74N (4X2) M/T Light Truck Box - 3908 CC- euro 4  
License Plat : D 8296 FT  
Number Identity : MHMFE74E6NK000829  
Number Machine : 4V21Y82540  
Gross Vehicle Weight : 3.91 tons  
Fuel System : Using Dexlite  
Testing Date : 16-09-2023 & 19-09-2023

The above sample was tested on Sept-2023 in accordance with the test method(s) stipulated, with the result(s) as follows:

TEST	METHODS	UNIT	SPECIFICATION	OPACITY THRESHOLD	RESULT		REDUCTION (%)
					NO OXYTANE	ADD OXYTANE	
Opacity	SNI 09-7118.2-2005	% HSU	Report	50	3.4	2.6	24
SO <sub>x</sub> , Sulfur Oxide	SNI 09-7118.1-2005	ppm	Report	-	37	20	46
NO <sub>x</sub> , Nitrogen Oxide	SNI 09-7118.1-2005	ppm	Report	-	33	16	52
C	SNI 09-7118.1-2005	ppm	Report	-	8	1	88
AVERAGE							52

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# Testing and Official Documents



The Intertek Emissions Reduction Report, based on testing conducted on a Mitsubishi Colt Diesel 2014, showed a 66% reduction in carbon emissions after consuming one full tank of fuel. This testing was performed on June 27, 2023

## SUMMARY OF TEST

SAMPLE NO. : PTR 10112  
JOB NO. : PC 230655 A  
COMPANY : PT Oxytane Mitra Indonesia (Oxytane International Group)

### SAMPLE DESCRIPTION:

Vehicle Identity : Mitsubishi Colt Diesel 2014  
License Plat : B 9169 BDG  
Number Identity : MMMFE71P1EK051941  
Number Machine : 4D34TK975546  
Gross Vehicle Weight : 2.5 tons  
Fuel System : Diesel  
Testing Date : 27-06-2023

The above sample was tested on Jun-2023 in accordance with the test method(s) stipulated, with the result(s) as follows:

TEST	METHODS	UNIT	SPECIFICATION	OPACITY THRESHOLD	RESULT		REDUCTION (%)
					NO OXYTANE	ADD OXYTANE	
Opacity	SNI 09-7118.2-2005	% HSU	Report	40	13.8	8.2	41
SO <sub>x</sub> Sulfur Oxide	SNI 09-7118.1-2005	ppm	Report	-	85	32	62
NO <sub>x</sub> Nitrogen Oxide	SNI 09-7118.1-2005	ppm	Report	-	72	28	61
C	SNI 09-7118.1-2005	ppm	Report	-	5	0	100
<b>AVERAGE</b>							66

### PT. INTERTEK UTAMA SERVICES

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## ANALYSIS REPORT

# Testing and Official Documents



• Intertek Lab sample analysis showed that Oxytane Fuel Treatment conforms to all American Society for Testing & Materials (ASTM) International Regulations and Standards. 21-07-2023

SAMPLE NO.: PTR 10112  
JOB NO.: PIC 230665 B  
COMPANY: PT Oxytane Mitra Indonesia (Oxytane International Group)

**SAMPLE DESCRIPTION:**  
Product: Fuel + Oxytane  
Sampling Point / Identity: Oxytane + Normal Diesel (Fuel)  
Sampling Container: Jerrycan  
Sampling Date: -  
Sampling Time: -

The above sample was tested on Jul-2023 in accordance with the test method(s) stipulated, with the result(s) as follows:

TEST	METHODS	UNIT	SPECIFICATION	RESULT
Cetane Index	ASTM D-4737	-	Report	55
Density at 15 °C	ASTM D-1298	Kg/m³	Report	833.6
Kinematic Viscosity at 40 °C	ASTM D-445	cSt	Report	3.219
Sulphur	ASTM D-4294	wt %	Report	0.0004
Distillation:				
Distillation IBP	ASTM D-86	°C	Report	173
Distillation 5% Recovered	ASTM D-86	°C	Report	212
Distillation 10% Recovered	ASTM D-86	°C	Report	224
Distillation 20% Recovered	ASTM D-86	°C	Report	239
Distillation 30% Recovered	ASTM D-86	°C	Report	252
Distillation 40% Recovered	ASTM D-86	°C	Report	262
Distillation 50% Recovered	ASTM D-86	°C	Report	273
Distillation 60% Recovered	ASTM D-86	°C	Report	285
Distillation 70% Recovered	ASTM D-86	°C	Report	300
Distillation 80% Recovered	ASTM D-86	°C	Report	318
Distillation 90% Recovered	ASTM D-86	°C	Report	343
Distillation 95% Recovered	ASTM D-86	°C	Report	363
Distillation FBP	ASTM D-86	°C	Report	368
Recovery	ASTM D-86	°C	Report	98.5
Residue	ASTM D-86	°C	Report	1.0
Loss	ASTM D-86	°C	Report	0.5
Flash Point	ASTM D-93	°C	Report	69.0
Pour Point	ASTM D-97	°C	Report	0
Carbon Residue 10%	ASTM D-4530	wt %	Report	0.01
Water Content	ASTM D-6304	mg/kg	Report	67.8
Oxidation Stability	ASTM D-2274	mg/100 ml	Report	0.27
Micro Biological Growth	Micro Monitor 2	cfu/L	Report	< 4000
FAME Content	EN 14078	vol %	Report	<0.1
Copper Strip Corrosion	ASTM D-130	-	Report	1A
Ash Content	ASTM D-482	wt %	Report	0.002
Sediment Content	ASTM D-473	wt %	Report	0.003
Strong Acid Number	ASTM D-664	mgKOH/g	Report	Nil
Total Acid Number	ASTM D-664	mgKOH/g	Report	0.0359
Particulate	ASTM D 2276	mg/L	Report	7.18
Lubricity	ASTM D-6079	micron	Report	298.0
Appearance	Visual	-	Report	Clear & Bright
Color	ASTM D-1500	-	Report	L 0.5

REMARK :

## PT INTERTEK UTAMA SERVICES

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# Testing and Official Documents



Testimonial from trials conducted on trucks in Vietnam with trucking company Ngoc Lop Oto Ltd, a 34% increase in fuel economy was consistently recorded over a 2-week period on several vehicles. 14-06-2024



## Minutes Of Testing

Prepared by : PT. Oxytane Mitra Indonesia

Date : 3-4 June 2024

Attendance :

- PT Oxytane Mitra Indonesia
- Ngoc Lopoto

Purpose: to test the effectiveness of Oxytane in Reducing fuel consumption

Testing Procedure :

- One unit Truck owned by Ngoc Lopoto's partner were selected for the test
- Testing Period from June 3 – 4 2024
- Fuel Consumption measurement were taken for Logistics Truck both with and without the application of Oxytane
- The test result were analyzed to determined the percentage of fuel consumption reduction achieved with Oxytane

Test Result:

No	Date	Initial Kilometer Readings	Final Kilometer Readings	Total Kilometers	Fuel Used	Fuel Consumption Liter/Kilometer	Remarks
1	June 3	00000	07500	7500	30L	4.00	
	Average					4.00	
2	June 4	00000	07500	7500	30L	4.00	
	Average					4.00	
Fuel Saving							
24.00							



Conclusion:

The result of the testing show that Oxytane is effective in reducing fuel consumption. The reduction in fuel consumption to the Logistic Truck was 34%, it could save cost saving to Ngoc Lopoto company.

Recommendation:

Based on the positive result of testing all parties agree that Oxytane has the potential to save a significant amount of money on fuel cost. The product is also safe and environmentally friendly.

# Testing and Official Documents



Testimonial from trials conducted in the plantation industry with **PT Tebo Indah (Agro Investama Group)**, showing up to 40% reduction in fuel consumption using Oxytane on heavy equipment operating with B30-B35 Diesel Fuel.



**PT. TEBO INDAH**

Head Office: Kudus No. 6, Menteng, Jakarta Pusat. 10310 – Indonesia

Phone: +62.21.5573.2923 Fax.: +62.21.5573.2922

Site Office: PT. TEBO INDAH, Ds Teluk Pandak, Kec. Tebo Tengah, Muara Tebo, Jambi

## COMPARATION OF FUEL CONSUMPTION



TEST UNIT : WHEEL LOADER " LINGIUONG "

TANGGAL UJI : 03-05 NOVEMBER 2022

### OPERATION WITH OUT OXYTANE

HM START : 7674.8

HM FINISH : 7684.9

HM USED : 10.10

SOLAR USED : 125 LITER

**FUEL CONSUMPTION : 12.4 LITER / HM**

TANGGAL UJI : 09-10 NOVEMBER 2022

### OPERATION WITH OXYTANE

HM START : 8087.2

HM FINISH : 8102.2

HM USED : 15

SOLAR USED : 141 LITER

**FUEL CONSUMPTION : 9,4 LITER / HM**

**CONCLUSION : REDUCE FUEL CONSUMPTION : 3 LITER / HM OR 24,2 %**

# Testing and Official Documents



ENERGYBANQ South Africa fuel economy and emissions reduction trials report on several different company vehicles and generators. 15-05-2024

## ENERGYBANQ

### South Africa: Oxytane Trial Results (Interim Report): 15 May 2024

Across South Africa, load-shedding (planned withdrawal of grid power) is a regular occurrence meaning that commercial and industrial companies need to provide back-up power using heavy-duty diesel generators. Trials using Oxytane treated generators were conducted between 23 March – 21 May 2024 at which point Load Shedding ceased. Further trials will recommence when Load Shedding starts again which is expected to be in early June 2024.

#### Test Diesel Generator 1:

Generator Type	Capacity	Location	Run Time (Hrs)	Diesel Savings	Emissions
Baudouin	1,000KVA	Rivonia Johannesburg	Units 4 Hours 12 Runs	18.0% (Fuel consumption reduced from 184 litres/hr)	Particulates Reduced & CO -53%

#### Test Diesel Generator 2:

Generator Type	Capacity	Location	Run Time (Hrs)	Diesel Savings	Emissions
AGG (displacement 30.6L)	1,200KVA	Anglo American Esthwani	Units 4-6 Hours x 10 Runs	23.2% (base consumption 244 litres/hr)	Particulates Reduced CO -48%

#### Test Diesel Generator 3:

Generator Type	Capacity	Location	Run Time (Hrs)	Diesel Savings	Emissions
Cummins	650KVA	Alice Lane Johannesburg	Units 2-4 Hours x 12 Runs	18.3%	Particulates Reduced

#### Test Diesel Generator 4:

Generator Type	Capacity	Location	Run Time (Hrs)	Diesel Savings	Emissions
Caterpillar	200KVA	Barloworld Johannesburg	Units 4 Hours x 15 Runs	21.2%	Particulates Reduced

Steph Burger, EnergyBanq CEO, drove a Porsche Cayenne 4.0L SUV from Johannesburg- Durban (570 Km at an average speed of 100-120Kmh) – starting with a full tank of Diesel treated with Oxytane - and achieved an 18% fuel saving.

## Testing and Official Documents



NV Seatec N35 Ship trial for fuel economy, report and testimonial, an increase in fuel economy on the main 6.120 horsepower engines were recorded at 32% and a 46% increase on the onboard utility generators. 23-06-2022



Fig 7. Nohab Engine



Captain of N35 (IMO: 8119637)

Our planned route for Monday 4<sup>th</sup> July will be from the harbor of Antwerp to the Harbor of Oostend. We will be in company of a professional pilot who works on the river the Schelde in Belgium and The Netherlands. The journey is 55 nm long and we will be no further away from shore then 12 miles. We plan in daylight 0600 with Highwater Antwerp departure and arrive around 16.00 in Oostend where we will be awaiting in drydock from IDP.

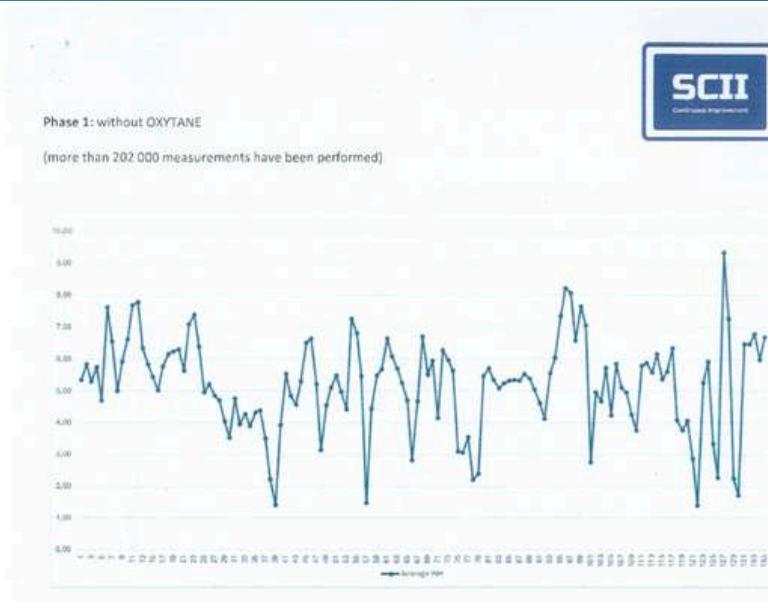
regards  
w. de Rhodes

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# Testing and Official Documents



SCII Guyana, By using Oxytane in their operational generators, they achieved a fuel efficiency of **31.95%**, surpassing their expected fuel reduction targets.



## Conclusion:

**Case 1: Without Oxytane**  
Production 701.92 KW within 135 hours - Consumptions 633 Liters

### Without OXYTANE

To produce	701,92	KW
Consumption is	633	liters of Diesel

### With OXYTANE

To produce	701,92	KW
Consumption would be	430,75	liters of Diesel

Saving is **31,95%**

## Oxytane test

Generator KING GU 78 JS 80 KVA



## Testing process:

The generator was not working 24/7. Therefore, it took weeks to collect enough data. The test was split in two periods:

**Period 1** without OXYTANE.

**Period 2** with OXYTANE as per producer recommendation (1/5000: 1 liter of OXYTANE, every 5000 liters).

Because consumption depends also on KW produced during each period and to avoid any biases, we monitored the production in KW with a 3 phases power Analyzer (PCE-PA 8000) [Power Analyzer PCE-PA 8000 | PCE Instruments \(pce-instruments.com\)](http://PowerAnalyzer.PCE-Instruments.com).

To make sure that average calculation on monitoring is representative of the production, every 2 second the KW produced has been registered.

# CLOSING STATEMENT



We owe it to future generations to explore every possible solution to combat climate change and ensure a healthy environment! The answer is clear: implementing Oxytane is not just an option, it's a responsibility.





OXYTANE

# Thank You

For your attention and participation

Presented by:

MULTIVERSE ENTERPRISE

More Information



[www.oxytane.id](http://www.oxytane.id)

