



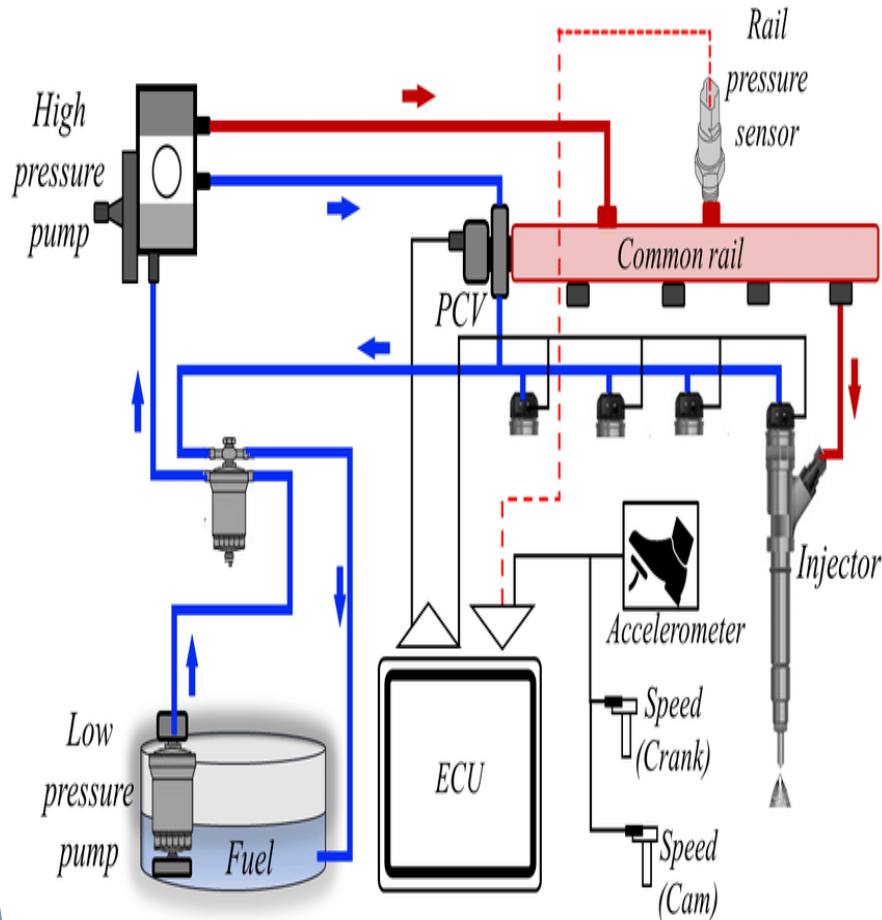
# BUSINESS PROPOSAL



# ZS Fuel Line Company Overview

ZS fuel line is a leading specialist in fuel additives, dedicated to providing you with unparalleled expertise and peace of mind. Our injector cleaner represents the forefront of automotive innovation, meticulously designed to enhance the performance of both diesel and petrol engines as well as machinery. We stand out in the industry through our unwavering commitment to efficiency, reliability, and environmental sustainability.

# How ZS Fuel Injector Cleaner Works



In modern engines, the engine management system regulates the fuel-to-air ratios delivered through the fuel injection system, maximizing efficiency. However, heat soak during engine shutdown causes fuel evaporation at the injectors, resulting in the accumulation of undesirable deposits around and on the injector nozzles.

These deposits, along with carbon build-up from low-quality fuels, can obstruct fuel injectors and disrupt the spray pattern, ultimately compromising engine performance and reliability. To combat this, regular servicing of the fuel rail and injector system is crucial for removing these deposits and ensuring optimal engine functionality.

We provide specialised products designed to eliminate all deposits from the fuel rail and injectors without risking damage to the engine, fuel pump, or lines. Our proprietary solvent, derived from crude oil, is specifically formulated to effectively clean the fuel injection system for both petrol and diesel engines.

# Benefits

- **Cleaning Efficiency:** Effectively cleans injectors, combustion chambers, and throttle body systems.
- **Emission Reduction:** Helps reduce exhaust emissions, contributing to a cleaner environment.
- **Fuel Economy:** Improves fuel economy, leading to cost savings.
- **Fuel Economy Savings:** Achieves a 2-3% improvement in fuel efficiency, considering factors such as driver behavior, load, terrain, fuel quality, and air quality.
- **Engine Performance:** Ensures smoother and more responsive acceleration.
- **Turbo Maintenance:** Keeps turbos and Variable Nozzle Turbines (VNT's) cleaner, ensuring better performance.
- **Quality Compliance:** Complies with original equipment manufacturers (OEM) specifications and standards such as SANS 342 for diesel fuel quality.
- **Injector Replacement Savings:** Prevents the need for at least two injector replacements, saving on both parts and installation labor.
- **Fuel Pump Replacement Savings:** Reduces the necessity for at least one fuel pump replacement.
- **Minimised Truck Downtime:** Decreases downtime caused by fuel-related issues, lowering the cost associated with each hour the truck is off the road.
- **Enhanced Performance and Drivability:** Improves overall vehicle performance and enhances the driving experience.
- **Reduced Filter Costs:** Minimises filter blockage, resulting in savings on filter replacements.
- **Less Fuel Foaming:** Reduces fuel foaming, allowing for quicker and more efficient refueling.

# Testing and compliance

The comprehensive testing conducted by bureau veritas gazelle (Pty) Ltd confirms that our ZS injector cleaner diesel variant meets and exceeds the specifications outlined by SANS 342 for diesel fuel quality in South Africa. Notably, the product demonstrates outstanding performance across all tested parameters, ensuring optimal engine efficiency and longevity.

- ▶ **Compatibility with all diesel engines:** designed to meet the exacting standards of OEM FUEL specifications, our product ensures compatibility and optimal performance across all diesel applications, including commercial vehicles, industrial machinery, and heavy-duty equipment.
- ▶ **Enhanced engine performance and longevity:** by adhering to OEM FUEL specifications, ZS Fuel Line injector cleaner helps preserve the integrity and efficiency of diesel engines, resulting in improved performance, reduced wear and tear, and an extended engine lifespan.
- ▶ **Peace of mind for equipment owners:** equipment operators and owners can confidently rely on our product, knowing it meets the rigorous criteria set by their manufacturers. This assurance leads to fewer operational disruptions, lower maintenance costs, and consistent engine performance.


# Technical Test Results

- **Appearance:** The product exhibited a bright and clear appearance, meeting the specified criteria for visual clarity.
- **Haze Rating:** The product demonstrates exceptional clarity, surpassing the requirement.
- **Density @ 20°C:** The density exceeds the minimum threshold, indicating a high-quality formulation.
- **Flash Point:** ZS Fuel lines flash point is significantly higher than the specified value, indicating enhanced safety and stability.
- **Kinematic Viscosity @ 40°C:** The product falls within the optimal range, ensuring proper flow and distribution.
- **Water Content:** Well below the maximum limit, showcasing excellent water separation properties, crucial for maintaining fuel integrity.
- **Distillation — 90% Recovery:** Meets the requirement, indicating efficient vaporization and combustion characteristics.
- **Cetane Index:** A cetane index of 53.3 was recorded, surpassing the minimum threshold highlighting superior ignition quality and engine performance.
- **Sulphur Content:** The sulphur content was, well below the permissible, ensuring compliance with environmental regulations and emission standards.
- **Lubricity:** The lubricity, measured in micrometres ( $\mu\text{m}$ ), indicated adequate lubricating properties beneficial for engine components.

These findings underscore the exceptional quality and performance of the ZS Injector Cleaner Diesel variant, aligning with the stringent standards set forth by regulatory bodies and industry stakeholders.

The comprehensive testing conducted by Bureau Veritas Gazelle (Pty) Ltd confirms that our ZS Injector Cleaner Diesel variant meets and exceeds the specifications outlined by SANS 342 for diesel fuel quality in South Africa. Notably, the product demonstrates outstanding performance across all tested parameters, ensuring optimal engine efficiency, longevity, and [compliance with Original Equipment Manufacturer \(OEM\) requirements](#).

# DATA AND TESTIMONIALS



**BUREAU VERITAS**

**BUREAU VERITAS GAZELLE (PTY) LTD**

**Certificate of Analysis**

Bureau Veritas Gazelle (Pty) Ltd  
96 Hokkaido Road, Island View  
Bluff, Durban  
South Africa

**Client:** Zakspeed Motorsport

**Att:** Rajean Viljoen

**Vessel/Other:** Special Analysis

**Certificate Date:** 22 March 2024

**File No.** D012053.24

**Sample No.** 2918.24

**Certificate No.** DBN652.24

**Product Name:** Gasoil

**Condition of Sample:** Good

**Sample Source:** Fuel Tank

**Date Received:** 20 March 2024

**Time Received:** 11h30

**Date Tested:** 20 March 2024


**Sample Drawn By:** Bureau Veritas Gazelle

**Terminal/Berth:** -

**Sample Method:** ASTM D4057

Test	Units	Method	Specification	Results
Appearance	-	ASTM D4176	Bright & Clear	Pass
Appearance, haze rating	-	ASTM D4176	2 max	1
Density @ 20°C	Kg/l	ASTM D4052	0.8000 min	0.8239
Flash Point	°C	ASTM D93A	55 min	68.0
Kinematic Viscosity @ 40°C	cSt	ASTM D445*	2.0 - 5.3	2.645
Water Content	ppm	ASTM D6304	350 max	53
Distillation – 90% Recovery	°C	ASTM D86	362 max	339.7
Cetane Index	-	ASTM D976*	48 min	53.3
Sulphur	mg/kg	ASTM D5453	Report	9.2
Lubricity	µm	ISO12156-1*	460 max	410

\*\*\*\*\* End of Analysis Results \*\*\*\*\*




**VL Mistry**  
Technical Signatory

= Subcontracted Tests  
[] Product does not meet specification  
\* Tests that are not accredited by SANAS to ISO/IEC 17025

Results marked "Not SANAS Accredited" in this report are not included in the SANAS schedule of accreditation for this laboratory. Results marked "Subcontracted Test" in this report are not included in the SANAS Schedule of Accreditation for this laboratory. This certificate related specifically to the sample/s tested as received. This test report shall not be reproduced except in full, without written approval of the laboratory. Analysis has been performed in accordance with the latest issues of the relevant test methods.

Page 1 of 1

**Bureau Veritas Gazelle (Pty) Ltd**  
Directors: E. Naidoo (Managing), C.C. Accredie, M.F.H. Roussel (French), E.M.A. Rigot (French)  
Reg. No. 2002/014931/07 VAT No. 4396020833  
Herib House, Old Duncan Road, Table Bay Harbour, Cape Town, 8001, South Africa  
P.O. Box 7912, Roggebaai, 8012  
Company Secretary: CSI Governance (Pty) Ltd  
The Bureau Veritas General Terms and Conditions of Service Apply (a copy is available on request)



**sanas**  
SOUTH AFRICAN NATIONAL ASSOCIATION OF TESTING LABORATORIES  
10620

MSDS and other technical sheets are available upon request.

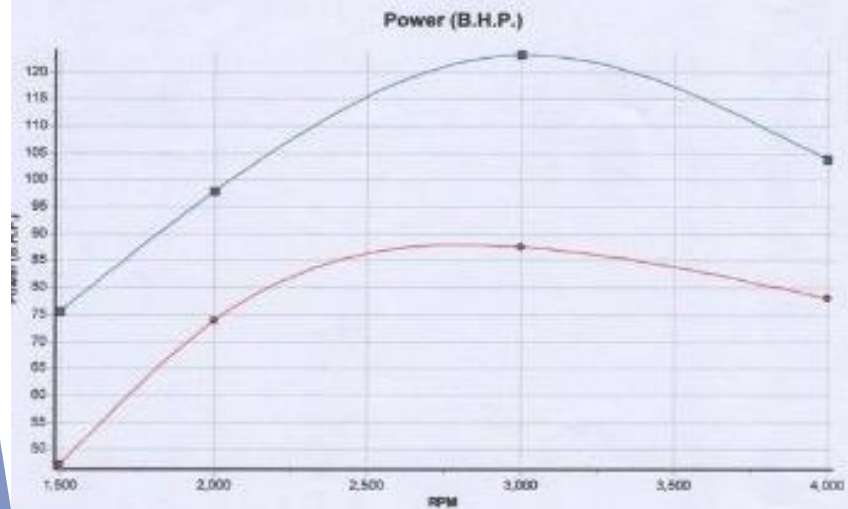


# Dyno Test Results; Before VS After using ZS Fuel Lines Injector Cleaner

Vehicle Type: TOYOTA HILUX 2.4 GDE  
Comments:  
Gear Used: 3

RPM	RUN 1	RUN 2
1500	47.2	75.6
2000	73.8	97.8
3000	87.8	123.2
4000	78.0	103.8

Dyno Run on behalf of  
ZS Fuel Line



● RUN 1: BEFORE  
■ RUN 2: AFTER

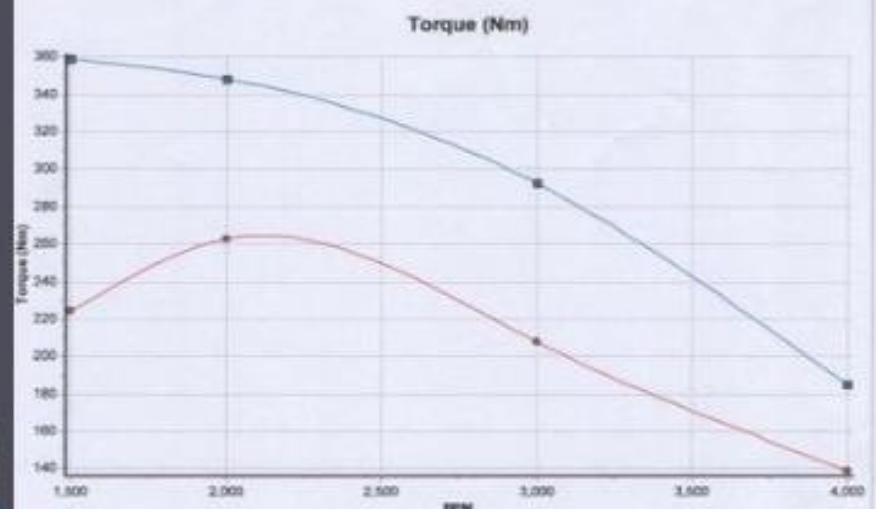
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Vehicle Type: TOYOTA HILUX 2.4 GDE  
Comments:  
Gear Used: 3

RPM	RUN 1	RUN 2
1500	224.1	369.0
2000	282.8	348.3
3000	208.0	292.5
4000	138.9	184.8

Dyno Run on behalf of  
ZS Fuel Line



● RUN 1: BEFORE  
■ RUN 2: AFTER

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## Safety and compliance

- Avoid direct contact with eyes and skin. If contact occurs, rinse thoroughly with water.
- Store ZS injector cleaner in a cool, dry place away from heat sources and open flames.
- Keep out of reach of children and pets to prevent accidental ingestion.
- If swallowed, do not induce vomiting. Seek medical attention immediately and provide the product label or container for reference.
- Use ZS injector cleaner only as directed and avoid mixing with other chemicals or additives to prevent adverse reactions.
- Dispose of empty bottles and packaging responsibly, following local regulations for hazardous waste management.

# Future developments

- ▶ At ZS Fuel Line, we understand that innovation is essential for maintaining a competitive edge in the automotive industry. that's why we invest significantly in research and development to continuously enhance our existing products and explore new offerings.
- ▶ Our dedicated team of researchers and engineers are always seeking ways to improve the performance and effectiveness of our products, including ZS injector cleaner - petrol and ZS injector cleaner - diesel. through rigorous testing and refinement, we ensure our solutions deliver optimal results for our clients, meeting their needs effectively.
- ▶ In addition to refining our current lineup, we are committed to expanding our product range to address the evolving demands of the market. our research and development efforts focus on identifying emerging trends and technologies within the automotive sector, enabling us to create innovative products that tackle the challenges our clients face.
- ▶ While we can't disclose all the specifics of our future product plans, we encourage companies to reach out to ZS directly for insights into what lies ahead. by partnering with us, businesses can access cutting-edge solutions that will keep them competitive in an ever-changing landscape.

# TESTIMONIALS

**MOTUS TOYOTA**  
Bryanston



Hobart Road, Off William Nicol Road,  
Bryanston, Sandton, 2191  
P O Box 75, Pinegowrie 2123  
Tel: 011 886-4735  
Website: [www.motustoyota.co.za](http://www.motustoyota.co.za)

7 March 2023

Re: Injector Max

Re: Zakspeed

To Whom It May Concern

Zakspeed was appointed to render additional services to our Dealership as an added benefit to our customers.

The added benefits included fuel consumption improvements and to ensure longevity of the engines.

This service includes the following.

1. Cleaning of injectors
2. Removing carbone built-up in the combustion chambers
3. Removing Alga from the fuel line system
4. Removing any water trapped in the fuel system
5. Improving Hose Power
6. Cleaning of the EGR System
7. Ensuring Turbo and other Mechanical Parts are operating too optimum
8. Reconditioning of Turbos and intercoolers

We have built a healthy relations ship with Marius and this added benefit assisted us to maintain happy customers and to reach our sales objectives

For More information, please feel free to contact me on the above Contact Details

Regards

Barry Harmse

Service Manager

# TESTIMONIALS



8 May 2023

To Whom It May Concern,

I am writing this letter of recommendation on behalf of Zakspeed Motorsport and their exceptional injector cleaning products.

As the Dealer Principal of Ford Randfontein - Ben Morgenrood Auto, I have had the pleasure of working with Zakspeed Motorsport for the past three years.

Zakspeed's Injector Cleaning products have had a significant impact on our dealership's operations.

Before engaging with Zakspeed, we experienced a higher rate of engine and injector failures in customer vehicles, which not only resulted in costly repairs but also negatively impacted our customer relationships. Since working with Zakspeed Motorsport, we have noticed a marked improvement in the performance of our customers' vehicles, fewer engine and injector failures have been reported, better fuel consumption which resulting in higher customer satisfaction rates.

In addition, we have also noticed that our customers' vehicles have returned closer to their original manufacturers service intervals, which has increased repeat business and customer loyalty.

As a multi-franchise dealer of Ford, Mazda, Mahindra, and Haval vehicles, we have seen improvements in the efficiency and reliability of all the vehicles we service.

Zakspeed's injector cleaning products have not only improved the overall performance and reliability of our customers' vehicles but have also helped us maintain the original manufacturer performance, which is important for their longevity and lower maintenance costs in the long term.

Furthermore, Zakspeed's team has been a pleasure to work with. They are professional, efficient, and always willing to go the extra mile to ensure that our needs are met.

Their attention to detail is exceptional, and they take great pride in their work, ensuring that our customers receive the best possible experience.

In conclusion, I would highly recommend Zakspeed Motorsport and their injector cleaning services to any dealership or fleet companies looking to maintain their vehicles' original factory output, optimise fuel consumption and improve their reliability.

Their services have had a significant impact on our dealership's operations and customer satisfaction rates. I have no doubt that they will be an asset to any organization that engages their services.


Sincerely,

---

Attie Fourie

Dealer Principal  
Ben Morgenrood Ford Randfontein

# Licence Certificate

 **mineral resources  
& energy**  
Department:  
Mineral Resources and Energy  
REPUBLIC OF SOUTH AFRICA

DMRE 41

**WHOLESALE LICENCE CERTIFICATE**

THIS IS TO CERTIFY THAT  
**ZAKSPEED MOTORSPORT CC**

ID/REGISTRATION NUMBER  
**1998/058125/23**

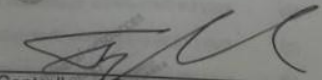
LICENCE NUMBER  
**W/2022/0499**

Is a wholesale Licence holder in terms of the  
Petroleum Products Act, 1977 (Act No. 120 of 1977)

LICENSED PETROLEUM PRODUCTS  
**AVIATION GASOLINE, BIOFUELS, DIESEL, JET FUEL,  
LIQUEFIED PETROLEUM GAS, PARAFFIN, PETROL**

ADDRESS  
**62 JAQUELINE  
ALBERTON  
GAUTENG  
1450**

**06 July 2022**  
Date of Issue

  
Controller of Petroleum Products

(Please see conditions of licence on reverse side)

**002930**

# Product guarantee

## ► Product Guarantee

### 1. Introduction

ZS Fuel Line (hereafter referred to as "ZS Fuel Line" or "the Company") provides high-quality products that enhance engine performance without causing damage. To reinforce our commitment to quality and customer satisfaction, we offer a Guarantee covered by Product Liability Insurance, ensuring that our products will not harm your engine when used as directed.

### 2. What We Guarantee

ZS Fuel Line guarantees that our Fuel Injector Cleaner products, when used according to the provided instructions, will not cause any damage to your vehicle's engine or fuel system. This guarantee applies to both petrol and diesel engines across all makes and models.

### 3. Scope of the Guarantee

This Guarantee covers damages directly resulting from the use of ZS Fuel Line's Fuel Injector Cleaner products, provided that:

- The product was used strictly according to the usage instructions provided by ZS Fuel Line.
- The vehicle has been maintained according to the manufacturer's recommended service schedule.

### 4. Exclusions from the Guarantee

The Guarantee does not cover:

- Damages resulting from misuse, overuse, or improper application of the product.
- Damages caused by pre-existing engine or fuel system issues, including but not limited to wear and tear, poor maintenance, or mechanical failures unrelated to the use of ZS Fuel Line products.
- Damages resulting from using the product in a manner inconsistent with the manufacturer's guidelines or the vehicle's intended use.



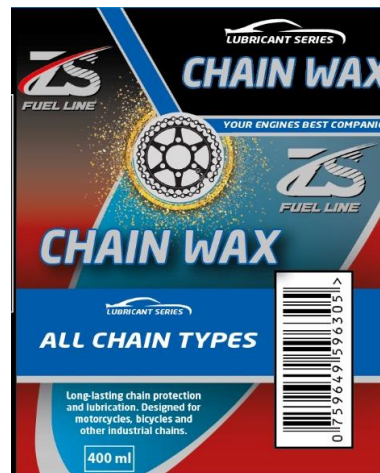
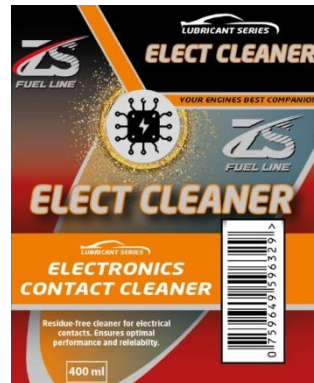
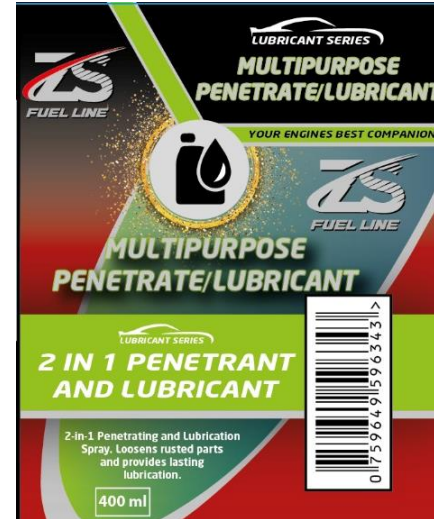
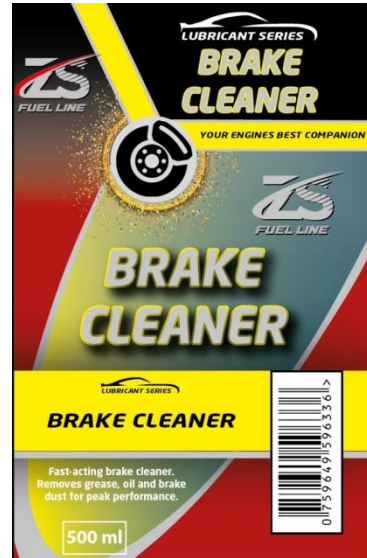
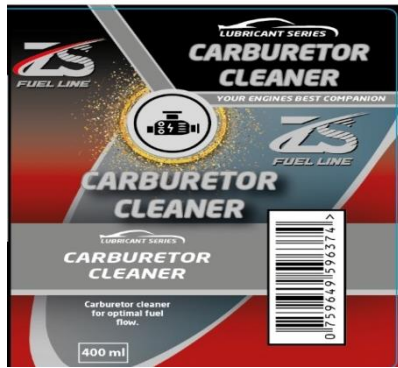
# Claims Process

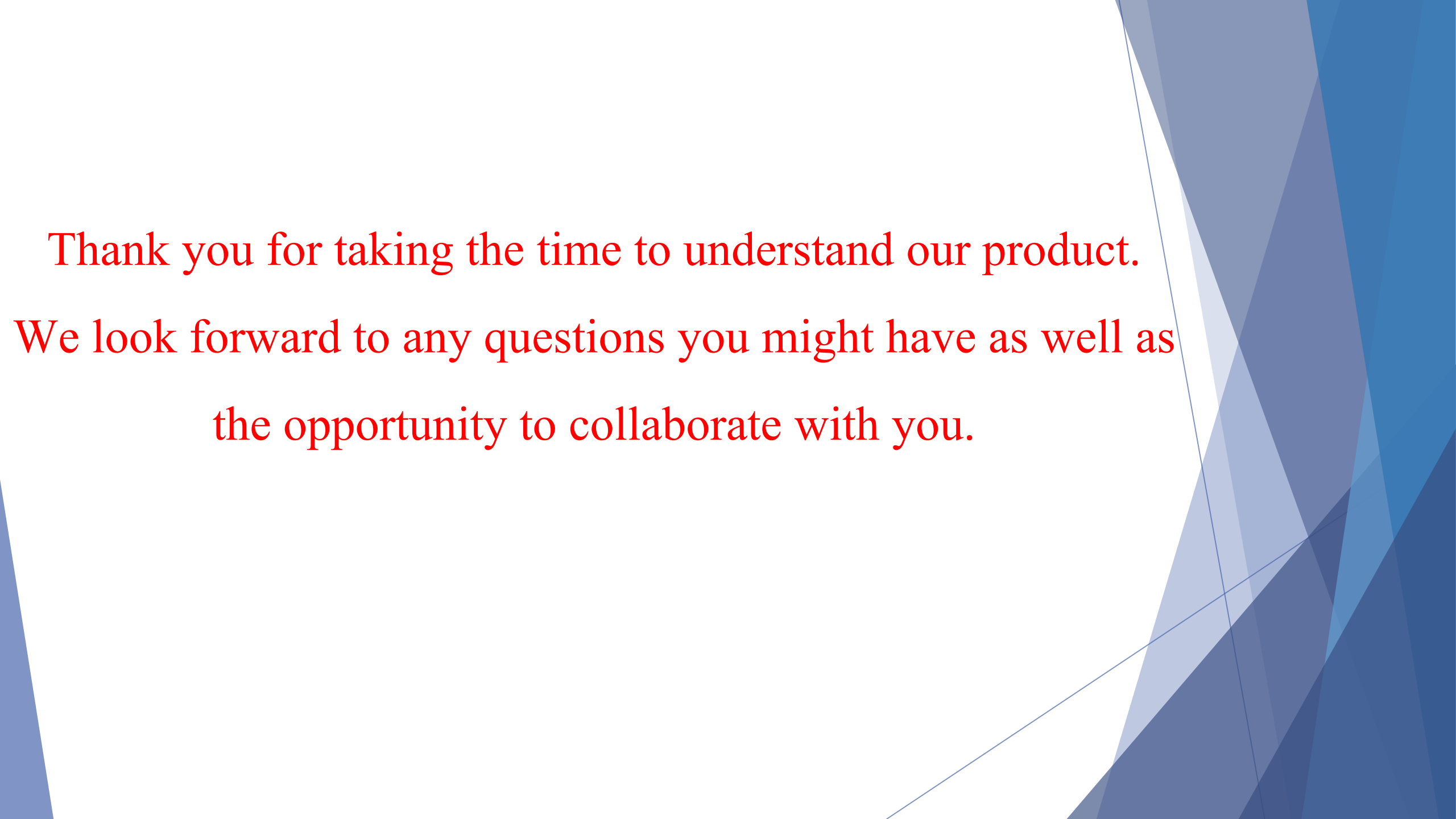
- ▶ Will share all relevant information upon proceeding

## Relationship Building

- **Provide Excellent Customer Support:** Ensure timely and helpful responses to customer inquiries to foster trust and loyalty.

# Other Products



The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light to dark, creating a modern and dynamic visual effect.

Thank you for taking the time to understand our product.  
We look forward to any questions you might have as well as  
the opportunity to collaborate with you.