



Not All Oil is Same!



Steel Shield Technologies

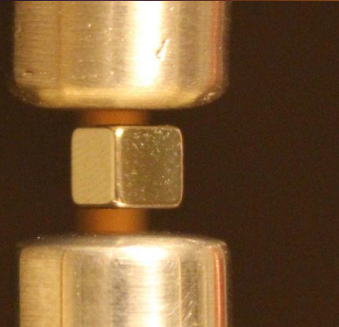
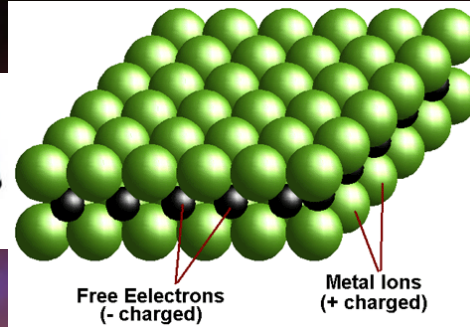
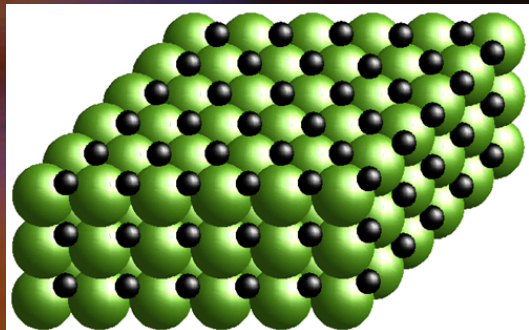


since 1985

美國神盾

What makes the Difference?

- The Ionic-Maglev – ABF Technology !



“Reliability is our first concern...
there is no room for system Dysfunction
when customers have chosen Steel Shield.”



About Us

Company Background

In 1985 Dr. George C Fennell in the research and development of high-end specialty lubricants invented the unique ABF Formula – Ionic Levitation. In the same year Muscle Product Corporation trading as MPC was founded by George Fennell, his brother Jay Fennell and father, Richard Fennell in Pennsylvania USA. In 2006 George resigned all his duty from MPC and incorporated STEEL SHIELD TECHNOLOGIES INC. As of then, ABF products have been renamed “Steel Shield” , and products of MPC received no further endorsement from George being the same product as it supposed to be.



Richard Fennell



Jay Fennell



George Fennell



Carol Fennell



Business Meeting – 1986





Steel Shield's blending and manufacturing capabilities are state of the art and the equipment is all stainless steel including the flow lines, pipes and couplers. All pumps and gauges are digitally interpreted and of the highest quality and accuracy to ensure production of the most superior quality lubricants. Materials are 100% Made in USA.

Inventor — Dr. George C Fennell



Doctor of Astronomy and Astrophysics

Accreditation:

SAE (Society of Automotive and Aerospace Engineers)
Member

ASNE (American Society of Naval Engineers) Member

NCMA (National Contract Management Association)
Member

STLE (Society of Tribologists and Lubricant Engineers)
Member



In 1985, Dr. George C Fennell, a former scientist in Astronomy and Astrophysics doing research in advanced lubrication and surface Tribology, formulated a revolutionary metal treatment oil additive which can realize “Ionic Maglev – the ABF Technology” through a proprietary and unique “electro-chemical ionization” process. Since then George has been crowned by the industry as the “Father of ABF Lubrication”.

ABF Technology

Ionic
Levitation

Friction



- 1.) Energy Loss
- 2.) Inefficient
- 3.) Heat
- 4.) Dysfunction
- 5.) Clogging
- 6.) Welding Up
- 7.) Fatal Damage
- 8.) High Cost



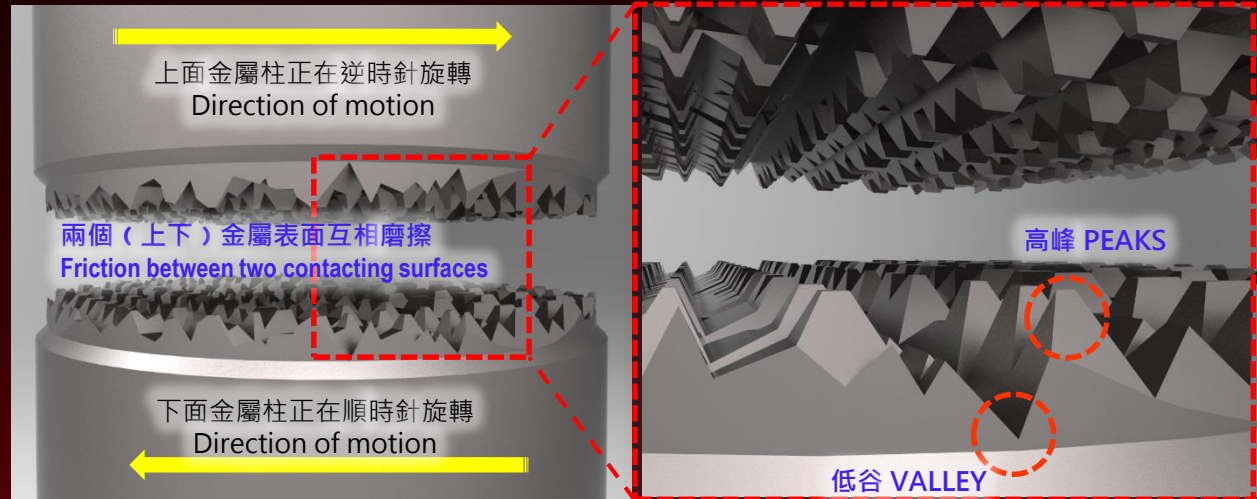
引发强劲潜能

ABF Technology provides
highest Return of Investment

ABF Technology

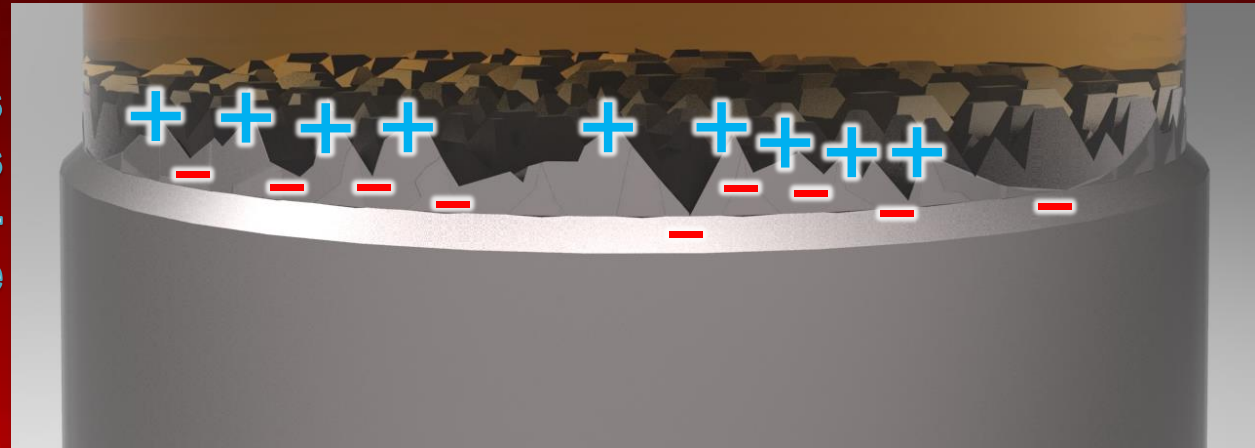
1. Metal Surfaces

Surfaces characterized by series of peaks and valley. When two metal surfaces contact each other and move in opposite directions, friction is caused, producing heat and metal deterioration.



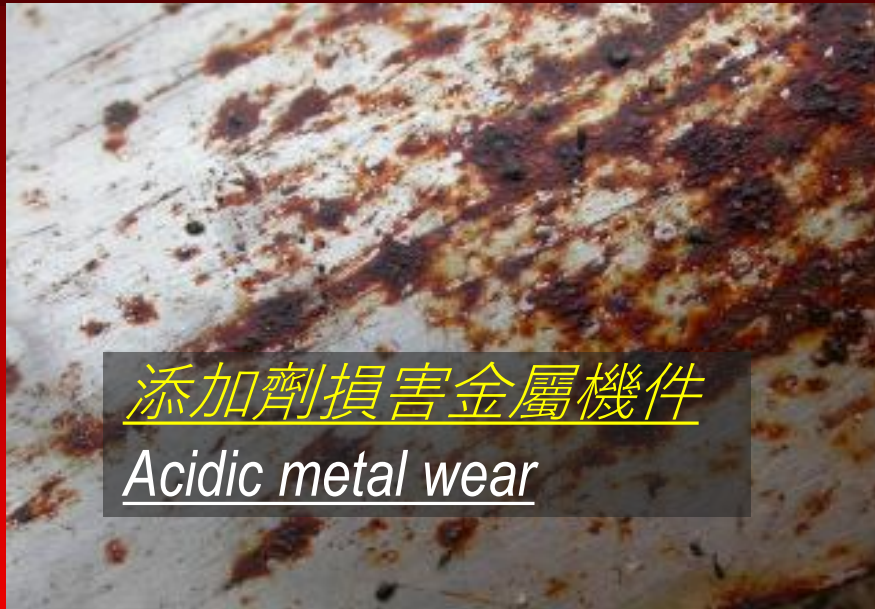
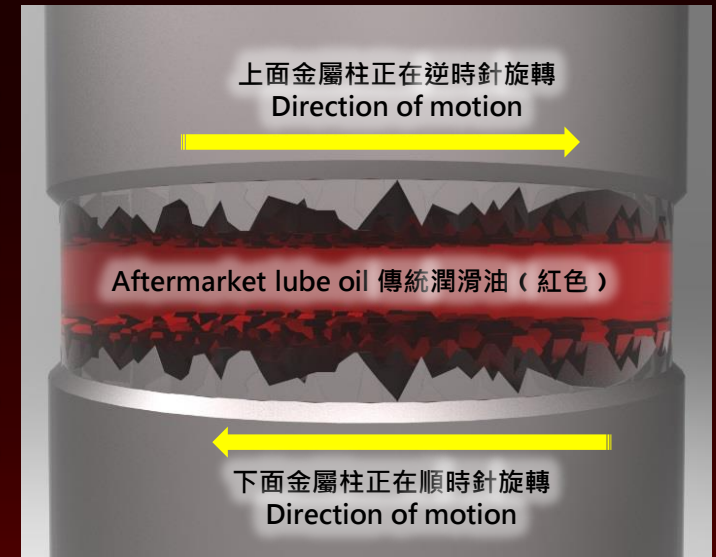
2. Surface Charge

Peaks known as asperities are positive charged whereas valleys referred to as micropores and fissures are negative charged.



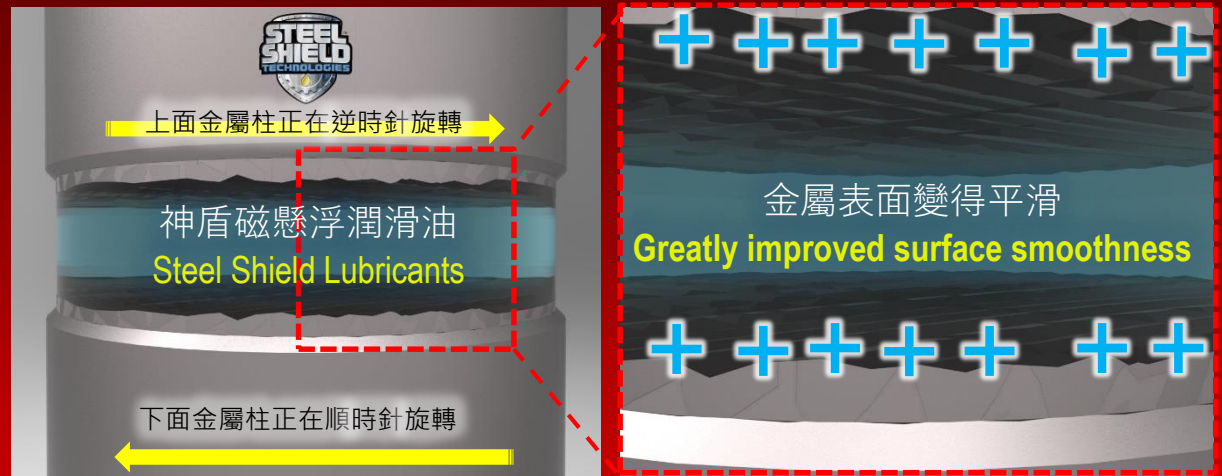
3. Aftermarket Lubricants

After market lubricants use chemicals and even substances like Moly and Esters to improve the characteristic quality of oil. These chemicals when mix together may cause cross effects creating acidic substances leading to abrasive wear and other adverse effects alike. The long applied traditional method for mechanical Run-In is actually a breaking-off or chip-away process which would create metallic debris in the lubricant leading to abrasive wear from wear metal particles. The resulting damage to the metal parts of the system is fatal and unrecoverable.



4. ABF Technology

Forms electro-negative surface attaching compounds to seek out and affix themselves to lower surface areas filling the micro-pores and fissures, as all metals are crystalline in structure and exhibit a lattice type matrix. This complex process also incorporates Van der Waal forces and dipole-dipole surface reactions. During this process, radical surface lapping is achieved instead of the longitudinal shearing. Asperities roll out or flatten creating greatly improved metal surfaces. Created in this process is a total positive state of polarity. When metal surfaces become uniform in charge, there is a significant reduction in friction due to Faraday reaction of like-charges. Viscosity, however, is a lesser consideration when incorporating Steel Shield techniques.

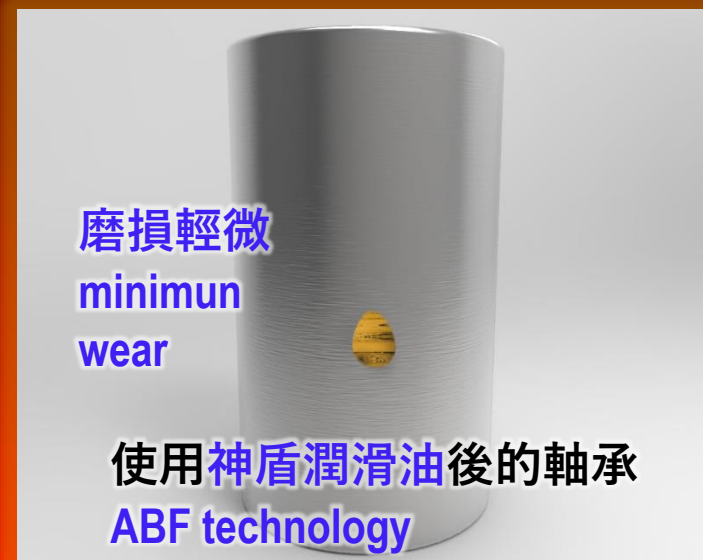


5. ABF vs Traditional technology

Steel Shield Technologies' mechanism of operation is based upon Tribology methods that improve lubricity and load carrying capacity by improving surface characteristics and creating a stable chemical, corrosion controlled halide-based boundary film. Steel Shield's active components react with each other and to cause the contacting asperities of the metallic surfaces a change of cation. As a result a positive-charge ionic force (like-charge repel) is realized between the two contacting surfaces, and as then the friction coefficient is becoming independent of total load and apparent area of contact. At this stage the function of lube oil is only for heat transfer.



軸承 Bearings



Five Major Mechanism

1. Virtual Zero Friction - RCB Ionic levitation

Faraday's Law like-charges Repel &
Dipole-Dipole Reaction

2. Dynamic Heat Transfer

Lubricant accumulates at the hot spot automatically

3 Non Corrosive Cleansing

Metal sludge repelled via induction and removed

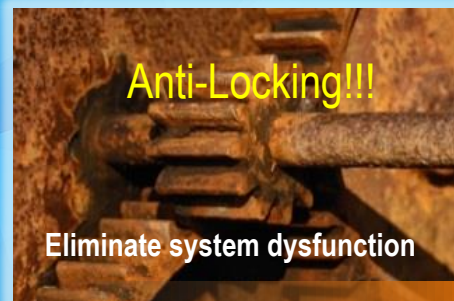
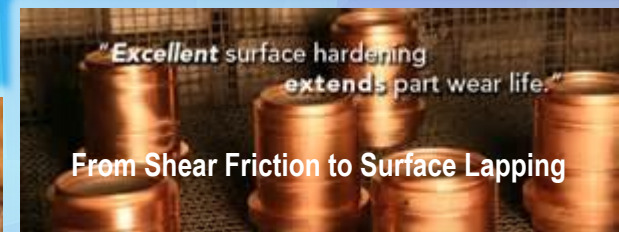
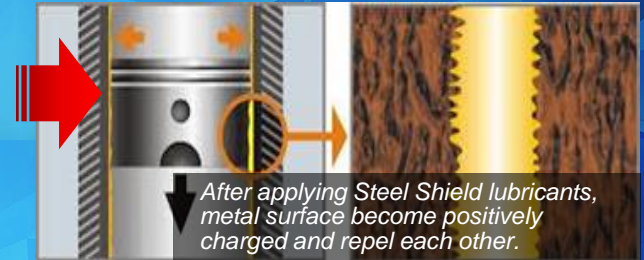
4. Metal Surface Re-hardening

From Shear Friction to Surface Lapping

5. Eliminate System Dysfunction

Not Just Oil !

It's Technology !!!



MSNs for the Steel Shield products added to EESOH-MIS

products for weapons, weapon systems and military equipment running under harsh conditions and environments
US Air-Force Purchasing Items

NSN/LPN: 9150PHM00065498

MSN: 9150PHM00065498

CAGE: 4TXQ2

Trade Name: STEEL SHIELD WEAPON SHIELD METAL TREATMENT GREASE

NSN/LPN: 9150PHM00065584

MSN: 9150PHM00065584

CAGE: 4TXQ2

Trade Name: STEEL SHIELD ANTI-WEAR EP METAL TREATMENT

NSN/LPN: 9150PHM00065587N

MSN: 9150PHM00065587

CAGE: 4TXQ2

Trade Name: STEEL SHIELD STRIKE SHIELD

NSN/LPN: 9150PHM00065581

MSN: 9150PHM00065581

CAGE: 4TXQ2

Trade Name: STEEL SHIELD SPRAY SHIELD

NSN/LPN: 9150PHM00065496

MSN: 9150PHM00065496

CAGE: 4TXQ2

Trade Name: WSG-EP1, WEAPON-SHIELD EP #1

NSN/LPN: 9150PHM00065578

MSN: 9150PHM00065578

CAGE: 4TXQ2

Trade Name: LITHI-SHIELD EP #2 GREASE

SN/LPN: 9150PHM00065590

MSN: 9150PHM00065590

CAGE: 4TXQ2

Trade Name: STEEL SHIELD TOOL SHIELD



Compliments from the US Military



Mark W. Puschnick

From: George C. Fenelli, L.E. (gcfenell@steeleshieldtech.com)
 Sent: Friday, June 08, 2008 10:15 AM
 To: Mark W. Puschnick
 Subject: FW: THANK YOU GEORGE FENELL AND WEAPONSHIELD

George C. Fenelli, L.E.
 SteeShield Technologies, Inc.
 President-Technical Division
<http://www.steeleshieldtech.com/>
<http://www.weaponshield.com>

-----Original Message-----
 From: Bill Raspoli (billraspoli@comcast.net)
 Sent: Friday, June 06, 2008 5:41 PM
 To: George C. Fenelli, L.E.
 Subject: THANK YOU GEORGE FENELL AND WEAPONSHIELD

From Alpha Company 214th Black Sheep a tremendous thank you so very much for the numerous bottles of lubrication to help keep our weapons running in these absolutely carry every day to keep myself and my loved ones safe. I trust your product to keep them straight from your company's pocket. You are a great American and what you do means so much more to us than the thousands of "support our troops" signs in cars around America, and similar superficial gestures.

In short thank you so much from me, Bill, and from the Black Sheep!

-----Original Message-----
 From: Beck, Jason I. MAJ 887 8F5FS [mailto:jason.beck@ira.centcom.mil]
 Sent: Tuesday, February 24, 2009 9:45 AM
 To: Mark W. Puschnick
 Subject: Weapons Shield Evaluation

Mark,
 I wanted to send an excerpt from an e-mail I received from our weapons maintainers that have been using your product since I arrived here several weeks ago:

In regards to the Weapon Shield lubrication, it is an outstanding product. We field tested the product with our troops who are required to clean their assigned heavy weapons daily. The feedback we received was all positive. They said the lubrication provided a thick protective coat and revitalized the metal on the weapons. Unlike other lubricants the Weapon Shield is more durable when used in day-to-day operations involving sand and dust. We also had sister services ranging from Army and Navy personnel try the lubrication. They too had nothing but good things to say. The needle lubricant applicators are perfect for maintenance and small clearing kits. They allow for precise placement of lubrication in tight places and on smaller parts.

The Lithi-Shield grease is also an amazing product. Thus far we have used it on numerous heavy weapons. It also eased the process of installing 21 safety pins on the M-2 Machine Guns. The grease is also very durable and applies with ease. From the Combat Arms perspective, we believe this product to be very efficient and would recommend it to anyone wanting to use it.

Just wanted to say thank you again, your products are amazing and definitely better than anything I've tried. The Armen are already asking where they can purchase the Weapon Shield Lube when they get back to the states. Thanks again for your generosity.

Jason Beck

07 May 2008

Mark W. Puschnick
 President & CEO
 SteeShield Technologies, Inc.
 3331 Industrial Blvd
 Bethel Park, PA 15102-2543

Mark,
 I wanted to take time to express my sincerest thanks to you and SteeShield Technologies, Inc. for your support while I was deployed overseas in support of the Global War on Terrorism.

Your product, Weapon Shield, was truly a "life saver".

In my first combat tour to Afghanistan in late 2003, not knowing much about your product, I began to use it for my personal weapon and my crew-served vehicle weapon as a just another oil that I received in my care package from home. I soon became educated on how this product was used and shoulders above the rest.

In the grueling conditions of southwestern Afghanistan, our weapons were subject to severe heat, dust, and even potential rain due to the humidity in the area. Compared to the other oils that we received, Weapon Shield was the only product that stood up to the battlefield environment and did not cause the bolt of the weapons to become "gummy" or "sticky". Weapon Shield actually acted as a "shield" and as a dust repellent.

When I found out that I was deploying back to Iraq in 2007, one of my first calls was to my father to get my hands on Weapon Shield. While conducting pre-deployment training at Fort Bragg, I introduced my soldiers to this product. When it comes to selling to a rough audience, young enlisted men are some of the toughest to buy into a new idea. Within days, all of the men were carrying this product and were even handing bottles within their packs.

When we got to Iraq, Weapon Shield bottles became a part of the combat packing list as assigned by my Detachment Sergeant. Weapon Shield was now the Standard Operating Procedure, a small bottle on each man and tube of grease in each truck.

Weapon Shield brought us through over 25 fire fights with great success when other soldier's from different unit's weapons failed. On one occasion on patrol with another unit, their .50 cal machine gun jammed. One of my gunners tossed a bottle of Weapon Shield to them. They broke down their weapon, applied the shield and quickly got back into the firefight. In our mission after action review, my soldiers quickly commented on how their weapons would only be treated with this product.

The bottom line is this... In two combat tours to both Afghanistan and Iraq, weapons treated with Weapon Shield, NEVER jammed. That saved lives. As a unit commander, my most important job was to complete this mission while bringing all of my soldiers home. Weapon Shield was a great contributor to my unit accomplishing that mission. In combat, the only option is perfect. If you are not, you can't. Weapon Shield was PERFECT every time. Victory!

Craig A. Hickson
 MAJOR, Infantry
 USAF

From: Adrian Roskie [mailto:adrian@tacticaldefense.com]
 Sent: Tuesday, December 18, 2007 11:41 AM
 To: George C. Fenelli, L.E.
 Subject: Weapon Shield Samples

Hi George
 Many thanks for the samples of Weapon Shield that you sent to me.

I tested your product on various firearms which I was home on R&R and was really impressed. They all felt smoother after applying Weapon Shield, even an old Rem-UMC 1911 that is not known for being a smooth pistol!

I've now returned to Iraq and over the last month have used your product on Glock and Browning pistols, M4's and M16 light machine guns. All the firearms felt a lot smoother after applying Weapon Shield. I also found that Weapon Shield does not get gummy due to the heat generated by firing or from the cold weather. I also noticed that Weapon Shield does not melt evaporate and disappear like other products that we have been using in the desert.

I have given a couple of samples to other experienced shooters, instructors/operators in Iraq and they have all given me very positive feedback. Good feedback for a new product in an old and competitive industry is not always easy to come by.

It says a lot for Weapon Shield that these experienced shooters have asked me for more of your product.

Having spent 20 years in the firearms training industry and working on various high risk units I have used many, many products that proclaimed to be the absolute solution! Weapon Shield has impressed me and I will definitely be placing an order when I get out of the desert and back to my shooting school on a full time basis.

Once again, thank you for the samples! I will definitely be recommending Weapon Shield to my friends, colleagues and students.

Regards
 Adrian Roskie
 Tactical Defense Institute
 (SA) +27 (0)44 698 2847
 (HQ) +27 (0)79 6298 7857
adrianroskie@tdi.co.za / www.tacticaldefense.co.za



Military Services

www.weaponshield.com



Letter from Siemens USA

December 10, 2008

Mark W. Pushnick
President & CEO
Steel Shield Technologies, Inc.
3351 Industrial Blvd.

SIEMENS Letter of Gratitude

Mark,

I would like to take this opportunity to thank you for introducing us to Steel Shield Technologies line of lubricants and Metal Treatment products. The performance of your products has been overwhelmingly superior to any other lubricants or metal treatments we have used in the past.

We are currently using the Lithi-Shield grease in our shop and it has proven to work very well in our high temperature applications. We have experienced absolutely no down time due to bearing failure on our high temp furnace since we began using the Lithi-Shield grease. In the past all bearings were replaced on a quarterly basis causing a significant amount of downtime and material cost. We also use the grease in our automated welding equipment and anywhere else frequent greasing is needed. It has out performed our previously used grease in every application and we use it as often as possible.

Because of the performance of the Lithi-Shield grease we started using Steel Shield EPA in all of our metalworking equipment. Since its introduction to our machines we have not experienced a significant breakdown of any kind and it has left them running smoother and quieter than ever. The Steel Shield Drill and Tap fluid is also used our shop and has significantly decreased our tooling costs and become a favorite of most of our machinists. The Spray Shield product is used by our maintenance department and it is proving to be superior to anything used here in the past. We are very happy with the cost and performance of Steel Shield Technologies products and I highly recommend them. I am continually looking for ways to reduce costs and downtime Steel Shield products have been a great contributor to our success.

Bob Cavill
Maintenance Department Supervisor
Siemens VAI Services, LLC
2901 Industrial Blvd.
Bethel Park, PA 15102
412-851-6700

Original



SOUTHWEST RESEARCH INSTITUTE TEST REPORTS

STEEL SHIELD LARGELY OUTPERFORMS REPUTED GREASES MADE BY YAMAMOTO AND

Petroleum Products Research Department
 Test Summary Report
 Steel Shield Technologies
 Purchase Order # 114
 October 25, 2013

ATLAS

SwRI	Sample ID:		20003	20004
Code:	Sample Identification:		Litho Shield	Yamamoto EP grease
D1264	Water Washout of Grease			
	Avg. Grease Washed Out	Wt %	1.32	0.66
	Test Temp.	°C	79	79
	Dry Temp.	°C	77	77
D1742	Oil Separation from Lubricating Grease	mass %	2.04	* Note
D2265	Dropping Point	°C	258	307
	Oven Temp.	°C	288	316
D2266	Wear Characteristics (Four-Ball Method)			
	Scar Diameter	kgf	0.75	0.47
D2596	Four-Ball Extreme Pressure Properties			
	Corrected Load	kgf	851.1	501.68
	Load-Wear Index	kgf	92.27	66.73
	Weld Point	kgf	800	315
	LNSL	kgf	80	63

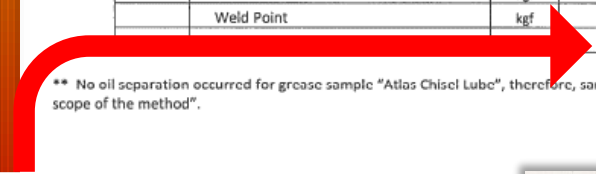
* No oil separation occurred for grease sample "Yamamoto EP grease", therefore, sample is considered "outside the scope of the method".



Petroleum Products Research Department
 Test Summary Report
 Steel Shield Technologies
 Purchase Order # 114
 October 25, 2013

SwRI	Sample ID:		20005
Code:	Sample Identification:		Atlas Chisel lube
D1264	Water Washout of Grease		
	Avg. Grease Washed Out	Wt %	1.11
	Test Temp.	°C	79
	Dry Temp.	°C	77
D1742	Oil Separation from Lubricating Grease	mass %	** Note
D2265	Dropping Point	°C	302
	Oven Temp.	°C	316
D2266	Wear Characteristics (Four-Ball Method)		
	Scar Diameter	kgf	0.71
D2596	Four-Ball Extreme Pressure Properties		
	Corrected Load	kgf	302.79
	Load-Wear Index	kgf	41.23
	Weld Point	kgf	315
	LNSL	kgf	50

** No oil separation occurred for grease sample "Atlas Chisel Lube", therefore, sample is considered "outside the scope of the method".



TEST ITEMS	Four-Ball Extreme Pressure Properties	Steel Shield Lithi Shield	Yamamoto EP Grease	Atlas Chisel Lube
Loading Ability	Corrected Load	851.1	501.68	302.79
Anti-Wear Ability	Load Wear Index	92.27	66.73	41.23
High Temperature Loading	Weld Point	800	315	315
High Pressure	LNSL	80	63	50

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Benefiting government, industry and the public through innovation.



SOUTHWEST RESEARCH INSTITUTE TEST REPORTS

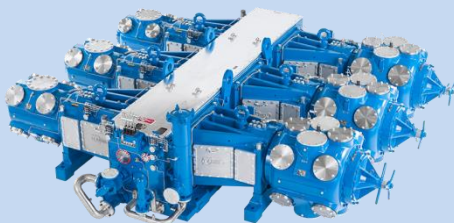
STEEL SHIELD GAS ENGINE OILS AND COMPRESSOR OILS ASTM D2782 TIMKEN TESTS

THE TEST REPORT FROM SOUTHWEST RESEARCH INSTITUTE – Timken ASTM D2782

Test Report
2014 / 11 / 20
Steel Shield Technologies

SwRI Lab No.	24564	23728	25252	23727	25250	25251
ASTM D2782 Measurement of Extreme-Pressure Properties of Lubricating Fluids (Timken Method)	SST Gas Engine Oil SAE 40 Ashless Without EPA	Steel Shield Gas Engine Oil GECAT SAE40 Low Ash With EPA	Steel Shield EPA	Steel Shield Compressor Oil ISO #100 / 150	Mobil Pegasus 805 SAE 40 Gas Engine Oil	Mobil Pegasus 801 SAE 40 Gas Engine Oil
Volume (Gallon)	1	1	1	1	1	1
OK Load (lbs)	40	40	75	55	9	9
Score Load (lbs)	45	45	80	60	12	12
Temperature (°C)	38	38	38	38	38	38

Products of the same class



Results

Steel Shield Wins :
Steel Shield outperforms Mobil in
OK LOAD parameter by **444 %** and
in SCORE LOAD by **375 %**.

The SwRI Timken Test report clearly testified Steel Shield products are FAR Superior than Mobil products of the same classes

SOUTHWEST RESEARCH INSTITUTE TEST REPORTS

STEEL SHIELD GAS ENGINE OILS AND COMPRESSOR OILS ASTM D2783 FOUR BALLS TESTS

THE TEST REPORT FROM SOUTHWEST RESEARCH INSTITUTE – 4-Ball ASTM D2783

Test Report
2014 / 11 / 20
Steel Shield Technologies

SwRI Lab No.	24564	23728	25252	23727	25250	25251
ASTM D2783 Measurement of Extreme-Pressure Properties of Lubricating Fluids (4-Ball Method)	SST Gas Engine Oil SAE 40 Ashless Without EPA	Steel Shield Gas Engine Oil GECAT SAE 40 Low Ash With EPA	Steel Shield EPA	Steel Shield Compressor Oil ISO #100 / 150	Mobil Pegasus 805 SAE 40 Gas Engine Oil	Mobil Pegasus 801 SAE 40 Gas Engine Oil
Corrected Load (kgf)	70	109	NA	1	136	74
Load Wear Index (kgf)	35	46	NA	48	34	35
Weld Point (kg)	200	250	>800	250	200	200
Last Non Seizure Load (kg)	80	100	80	100	63	80



Products of the same class

Results

Steel Shield Wins :

Steel Shield outperforms Mobil in the Weld Point (oil strength in resistant to EP) parameter by 129 % and in the Last Non Seizure Load (wear performance in respect to load) by 159 %.

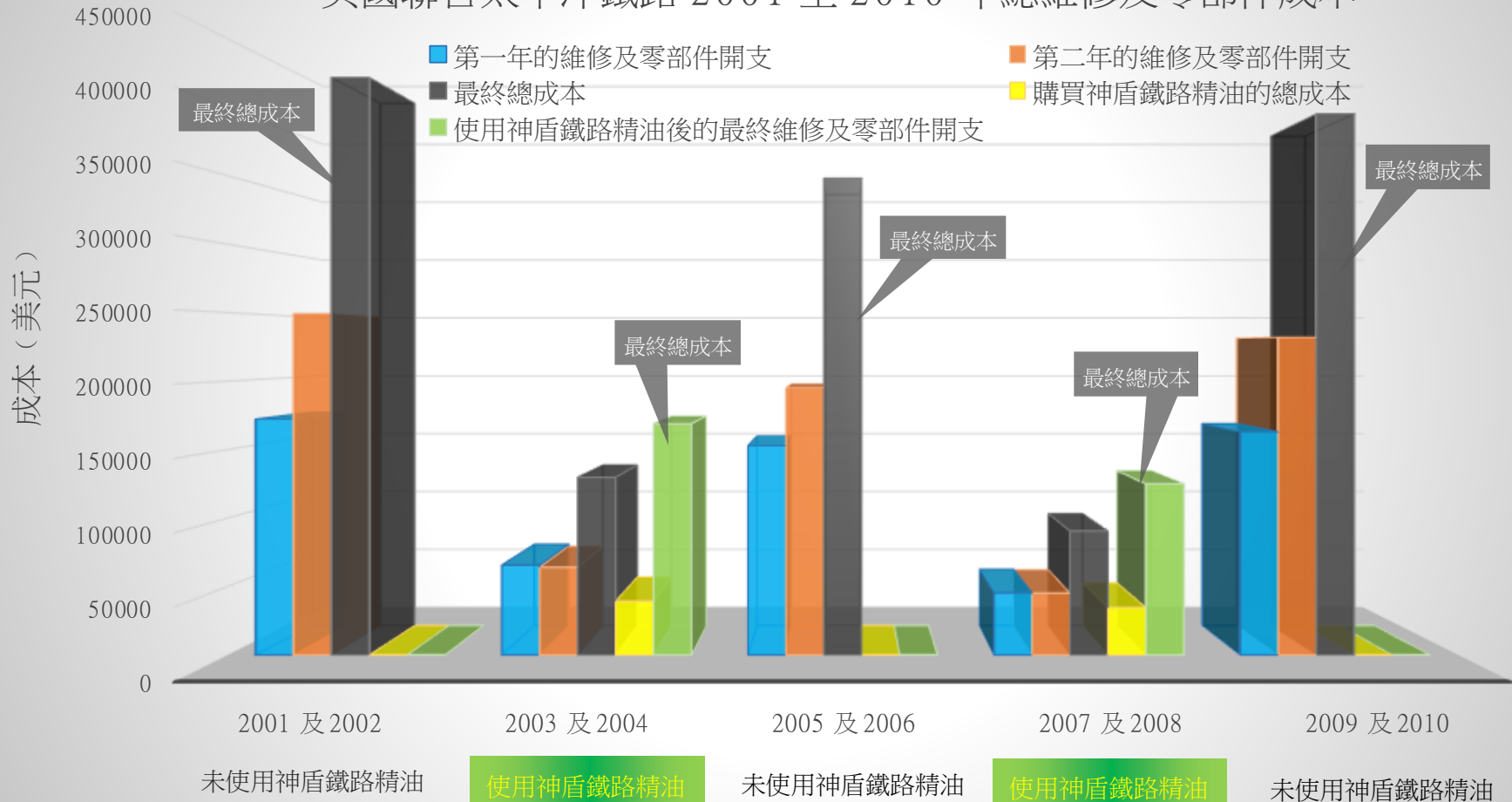
***Remarks: 4-ball test is normally for heavy weight oil and grease.

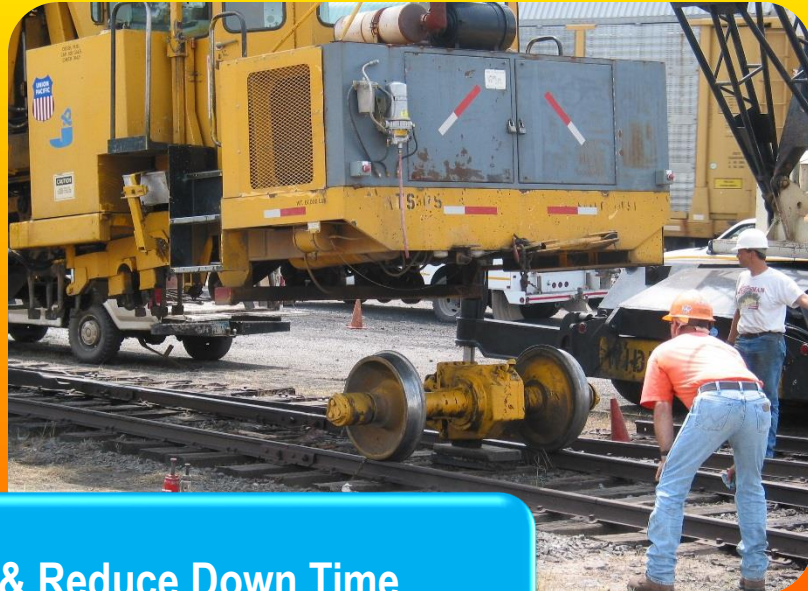
The SwRI 4-Balls Test testified Steel Shield products are superior than Mobil products of the same classes

Union Pacific RailRoad Field Test REPORT

UPRR Repair & Maintenance Expenses Before & After applying Steel Shield Products

美國聯合太平洋鐵路 2001 至 2010 年總維修及零部件成本





Improve Reliability & Reduce Down Time
We're the Champion, Let's help you make yours!



ABF TECHNOLOGY-RAIL EQUIPMENT

- ABF Ionic Maglev improves system performance & reliability
- Realize like-charges ionic force between two metal surfaces
- Surface lapping improves smoothness & rehardens metal surface
- ABF Technology reduces system temperature, friction & improves loading capability

BENEFITS YOU MAY EXPECT FROM ABF TECHNOLOGY

- increase train velocity
- improve on-time train performance
- extend parts life and component reliability
- reduce maintenance interval and downtime
- reduce friction
- save energy
- reduce working temperature
- improve smoothness & reduce noise
- protect metal parts from cold start & motion damage



Cost Saving



Substantial Savings in costs !!!



M/W EQUIPMENT CENTRAL REGION (POWER UNITS ONLY)

Case Study 1

- Year 2001 & 2002

Without Steel Shield products

- Year 2003 & 2004

Steel Shield applied to the engine, gear, hydraulic, transmission & traction motor system



Not Just Oil...
IT'S TECHNOLOGY



60%
Savings

Year 2001/2 vs 2003/4 cost analysis

2001 及 2002		2003 及 2004 with Steel Shield	
Cost of Failures	= \$172,296 + \$249,476 = \$421,772 (cost \$210,886/p.a.)	Cost of Failures	= \$65,722 + \$64,021 = \$129,742 (cost \$64,871/p.a.)
		Cost of Steel Shield products	= \$21,195 + \$18,000 = \$39,195 (cost \$19,598/p.a.)
		Total Cost to UPRR	= \$168,937 (cost \$84,469/p.a.)
		Savings to UPRR	= \$252,835 (cost \$126,417/p.a.)
		(ROI)	= $\frac{\$252,835}{\$39,195}$
		Return on Investment with Steel Shield	\$39,195 = 5.45 (545% ROI)
(US Dollars)		(US Dollars basis)	

- This savings does not include

- man hours, rentals, downtime costs or delays

* Return on Investment : $\frac{\text{Savings} - \text{Cost}}{\text{Cost}} = \text{ROI}$



UPRR 2005-2008 Cost Analysis

Case Study 2

Steel Shield products was purchased and added to M/W equipment components even though Case Study 2 is only showing the savings for Power Units.

- Year 2005 & 2006

UPRR Cost of Failures

- Year 2007 & 2008

UPRR Cost of Failures with Steel Shield



Remarks : All Repair cost are averaged due to core damage & applications

All repairs are due to poor lubrication & excessive wear

Repair Costs do not include man hours, downtime, rentals or delays

	Unit Repairs to	Cost per unit	2005 Unit Repairs		2006 Unit Repairs		2007 Unit Repairs		2008 Unit Repairs	
			Units	Cost	Units	Cost	Units	Cost	Units	Cost
Total Cost of Units Per Year	Engines	12,000.00	4	48,000.00	6	72,000.00	1	12,000.00	0	0
	Transmissions	11,000.00	3	33,000.00	4	44,000.00	0	0	1	24,000.00
	Differentials	1,300.00	2	2,600.00	4	5,200.00	1	1,300.00	0	0
	Hydraulic Pumps	4,000.00	10	40,000.00	8	32,000.00	4	16,000.00	5	14,000.00
	Valve Failures	935.00	3	2,800.00	3	2,800.00	0	0	2	2100
	Hydraulic Cylinders	600.00	12	7,200.00	15	9,000.00	6	3,600.00	5	3,800.00
	Hydraulic Motors	2,500.00	8	20,000.00	12	30,000.00	5	12,500.00	1	1200
Total Cost of Repairs per year				\$153,000.00		\$195,000.00		\$45,400.00		\$45,100.00



Case Study 2 :

Continued UPRR Purchased US\$20,394 Steel Shield Products

- 2008 · UPRR Purchased US\$14,100 Steel Shield Products

- Steel Shield products was purchased and added to M/W equipment components even though Case Study 2 is only showing the savings for Power Units

	2005	2006	2007	2008
Cost of Failures	153,000	195,000	45,400	45,100
Cost of Steel Shield Products			20,394	14,100
Total Cost of Failures	153,000	195,000	65,794	59,200

2005-2006 & 2007-2008 UPRR Cost of Failures Analysis

2005 及 2006 (without using Steel Shield)	2007 及 2008 (Steel Shield Products being used)
Cost of Failures = \$153,000 + \$195,000 = \$348,000 (\$174,000/p.a.)	Cost of Failures = \$45,400 + \$45,100 = \$90,500 (\$45,250/p.a.)
	Cost of Steel Shield Products = \$20,394 + \$14,100 = \$34,494 (\$17,247/p.a.)
	UPRR Total Cost of Failures = \$124,994 (\$62,497/p.a.)
	Savings to UPRR = \$223,006 (\$111,503/p.a.)
	Return of Investment (US\$) = $\frac{\$223,006 - \$34,494}{\$34,494}$ = 5.46 (546% ROI)
(Basis on USD)	



64% Savings

- Remarks : This Savings does not include man hours, rentals, downtime costs or delays.



UPRR PRODUCT CODE FOR STEEL SHIELD

- RES-MT-16oz # 310-4437-0
- RES-MT-128oz # 310-4440-0
- RES-MT-5G # 310-4441-0
- RES-MT-55G # 310-4444-0
- RES-MT-300G # 310-4446-0



**Not Just Oil...
IT'S TECHNOLOGY**

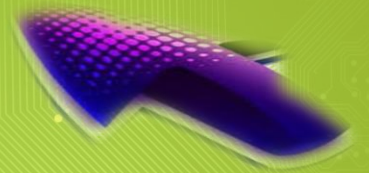
SUMMARY

- Steel Shield ABF Products have increased train velocity, improved on-time train performance, extended parts life and component reliability and reduced maintenance and downtime by treating the metal surfaces to reduce friction, heat and wear.
- 8 years in field use experience has proven Steel Shield Products have had no negative or detrimental effects – it's a safe product !
- By using Steel Shield ABF Products, UPRR saved over 60% maintenance & repair costs – a substantial figure.

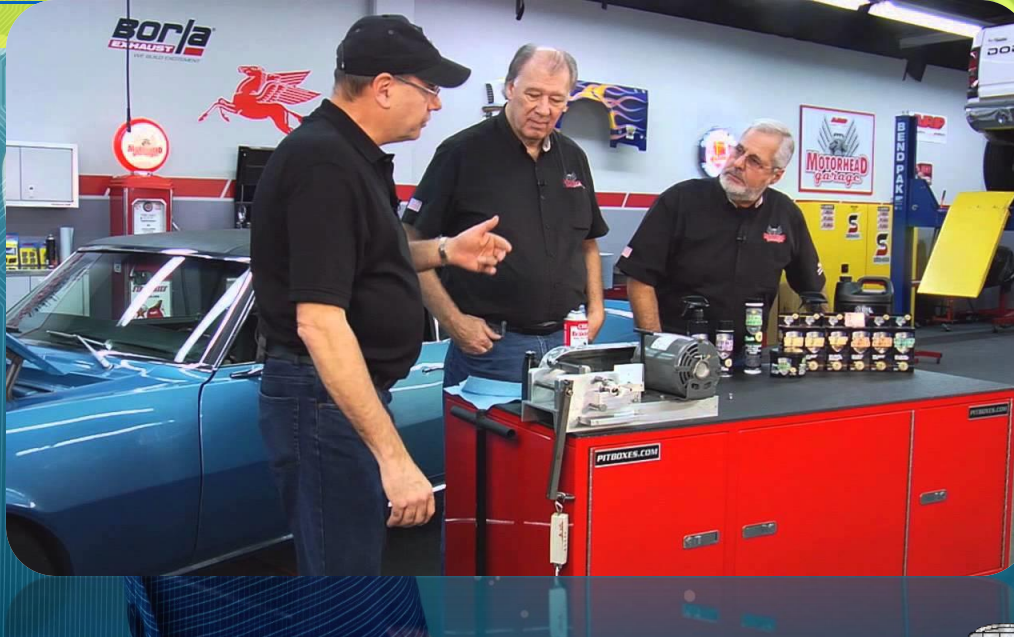


STEEL SHIELD VIDEO DEMONSTRATIONS

- [Steel Shield ABF Technology – How it works?](#)
- [Steel Shield ABF Technology – Timken Demonstration.](#)
- [Steel Shield Technology Demo 1](#)
- [Steel Shield Technology Demo 2](#)
- [Steel Shield Tech Full Feature on Motorhead Garage](#)
- [Steel Shield Motorhead Garage Commercial](#)
- [Steel Shield Interviewed by the Guangdong Sport TV in the China International Lubricants and Technology Exhibition](#)



Please click the links



32. Letters from Union Pacific Railroad & PA Port Authority

Joe Hendricks
6455 East Commerce
Kansas City, MO 64120
MMEO Central Region

10/01/2003

Marla Carrow
6455 East Commerce
Kansas City, MO 64120

RE: MT-10

Marla:

I want to update you on our progress with the MT-10 product. Sense my last report I have applied MT10 to all of my service units. We use the product in our engines, transmissions, gearboxes and hydraulic tanks thus protecting the entire systems. The product performed as expected. Our failures with these components have decreased even more. Now we are able to work on equipment from the preventative maintenance side instead of a breakdown mode.

We have had cases that I can attribute directly to MT10 and were able to save the company thousands of dollars on the spot. This product proves itself worthy over and over and should be used by all departments to get the maximum savings for the Union Pacific.

Sincerely

Joe Hendricks
Manager M/W Equipment Operations CR
816-245-2733

The letter states that the Union Pacific Railroad uses Steel Shield product extensively. Steel Shield has been proved to be functional and cost-



PORT
AUTHORITY

August 14, 2002

Mark Pushnick
President
Mark Pushnick Enterprises
3351 Industrial Blvd.
Bethel Park, PA 15102-2543

Re: Return on Investment of MT-10 Metal Treatment

Dear Mr. Pushnick:

As you are probably aware, Port Authority of Allegheny County's experiences with MT-10, has been very good. We have been using this product in the gearboxes of our light rail vehicles for approximately 8 of the last 9 years now. One year we discontinued the use of MT-10 and experienced a sharp decline in gearbox reliability and since have resumed the use of its application.

We regularly have oil analysis performed, by an independent testing laboratory and the results of the analysis have indicated that the use of MT-10 has significantly lowered the wear metals that we previously experienced prior to its use. The MT-10 has appreciably extended the service life of our existing gearboxes.

Based on the costs we were incurring prior to the use of the MT-10 product verse the costs we are currently incurring, we have realized a Return On Investment (ROI) of approximately \$45 saved for every \$1 expensed or 45:1 ratio. The most significant factor was the increase in reliability as well as availability. The vehicles were able to perform when needed and the missed trips were lowered to approximately 10% of past history.

As you are also aware, we continue to use the Power Cut (PC-10) and Power Lift (PL-10) grease with similar experiences.

If you have any questions or I can be of any further assistance, feel free to contact me at (412) 566-5149.

This letter states that they save around USD 45 in maintenance cost for every USD 1 investment in Steel Shield products. Also, the vehicles malfunctions drop to around 10%

Sincerely,

Mark P. Ferrari, C.P.M., A.P.P.
Manager of Contract Administration
Bus & Rail



Joe F. Hendricks
Mgr. M/W Equipment Operations
Central Region
UNION PACIFIC RAILROAD
6455 E. Commerce Ave., Kansas City, MO 64120
ph. (816) 245-2733 c. (816) 804-6880
pgr. 4-68900-143-7243 pm-888996
jfhendri@up.com



SPECIALTY PRODUCT LINES



www.steelshieldtech.com.hk
www.facebook.com/steelshieldtech

INSURANCE CERTIFICATE AND CONFIRMATION OF NO INSURANCE CLAIM



Best Insurance Agency
 340 S. Main St., P.O. Box 670
 Butler, PA 16003-0670
 (724)283-5670 (724)283-1160 Fax
 Email: Ray@Bestinsurancebutler.com

September 18, 2013

Steel Shield Technologies (Asia Pacific) Limited
 22nd Floor, W. Business Centre
 4 Kam Hong Street
 North Point, Hong Kong

To Whom It May Concern:

Please be advised that Steel Shield Technologies Inc, manufacturer of specialty lubricants and greases, located in Bethel Park, Pennsylvania, USA, has had no claims, claim related incidents or notices of loss under any General Liability policy issued by our office. We have provided them with General Liability coverage continuously since April 24, 2008

If you have any questions or need further information please feel free to contact me. I will be happy to be of further assistance.

Sincerely,

 Raymond A. Rosenbauer
 Vice President



ACORD®		CERTIFICATE OF LIABILITY INSURANCE		DATE (MMDDYYYY) 5/14/2014		
THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.						
IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).						
PRODUCER Best Insurance Agency 340 S. Main St., P.O. Box 670 Butler PA 16003-0670	CONTACT NAME Jamie McDonald PHONE (724) 283-5670 FAX (724) 283-1160 E-MAIL jamie@bestinsurancebutler.com ADDRESS	INSURER(S) AFFORDING COVERAGE Cincinnati Insurance Companies	NAIC #			
INSURED Steel Shield Technologies Inc 3351 Industrial Blvd / Bethel Park PA 15102	INSURER B:	INSURER C:	INSURER D:	INSURER E:		
COVERAGES		CERTIFICATE NUMBER: coi 2014 - 15				
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.						
INSTR	TYPE OF INSURANCE	ADOLISUBR (INSR, LWD)	POLICY NUMBER	POLICY EFF (MMDDYYYY)	POLICY EXP (MMDDYYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR		ENP04242014	4/24/2014	4/24/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (E&S) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPIOP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJ <input type="checkbox"/> LOC					
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS					COMBINED SINGLE LIMIT (Per accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	UMBRELLA LIAB EXCESS LIAB DED RETENTION \$		ENP04242014	4/24/2014	4/24/2015	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) if yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N/A				WC STATUS: <input type="checkbox"/> OTH-ER LIMITS EL EACH ACCIDENT \$ EL DISEASE - EA EMPLOYEE \$ EL DISEASE - POLICY LIMIT \$
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101)						
CERTIFICATE HOLDER Steel Shield Technologies Inc. 3351 Industrial Blvd. Bethel Park, PA 15102			CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 			
ACORD 25 (2010/05) INS025 (201005) 01						
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61st Macau Grand Prix (2014)



Exhibition & Events





SST Racing

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Are you READY ?



**Not Just Oil...
IT'S TECHNOLOGY**

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11 Kin Fat Street, Tuen Mun, N.T.,

Hong Kong.

Email: steelshieldtech@yahoo.com

Tel: +852-25458029

Fax: +852-25458030

Website: www.steelshieldtech.com.hk

Facebook: www.facebook.com/steelshieldtech

