



Not All Oil is Same!



“Steel Shield 神盾”

讓世人知道不是所有潤滑油都是雙胞胎

Steel Shield Technologies

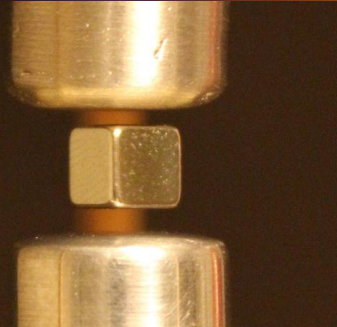
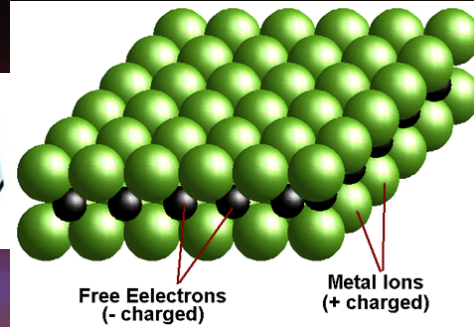
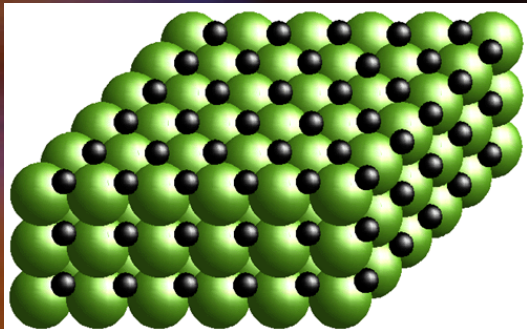


since 1985

美國神盾

無可取締的潤滑不靠油？

- 神盾技術 - 獨家ABF 離子轉移磁浮態



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

神盾

竭盡全力確保機械無故障



此油非等閒...
實是一絕密科技!



About Us

公司背景

Steel Shield Technologies Inc 美國神盾創辦於 1985 年，父親 Richard Fennell是董事長兼首席執行官，兄長Jay Fennell 是總裁和營銷經理，George 本人是執行副總裁兼技術總監。美國神盾Steel Shield是官方唯一名稱，第四代配方。



Richard Fennell



Jay Fennell



George Fennell



Carol Fennell



Business Meeting – 1986





美國廠房擁最先進的製造技術和配套設施，全自動電腦監控和整合，設備精鋼打造，100%美國原料生產

發名家 — Dr. George C Fennell



Doctor of Astronomy and Astrophysics
天文學和天體物理學博士

Accreditation:

SAE (Society of Automotive and Aerospace Engineers)
Member

汽車與宇航工程師學會

ASNE (American Society of Naval Engineers) Member
美國海洋工程師學會

NCMA (National Contract Management Association)
Member

國家合同管理協會

STLE (Society of Tribologists and Lubricant Engineers)

SAE
國際潤滑工程師學會

INTERNATIONAL



1985 年 Dr. George C Fennell 秉承其父親及祖父在磁浮潤滑學的科研，成功開發“離子鍵轉移技術”（Electro-Chemical Ionization 又名 Reactive Chemical Bonding）將金屬表層轉化為陽離子（正電荷），Faradys Law 同極相斥形成磁懸浮狀態的（ABF）無形保護牆。自始，被學界冠以“磁浮態之父”的美譽。

磁懸浮

Friction 摩擦



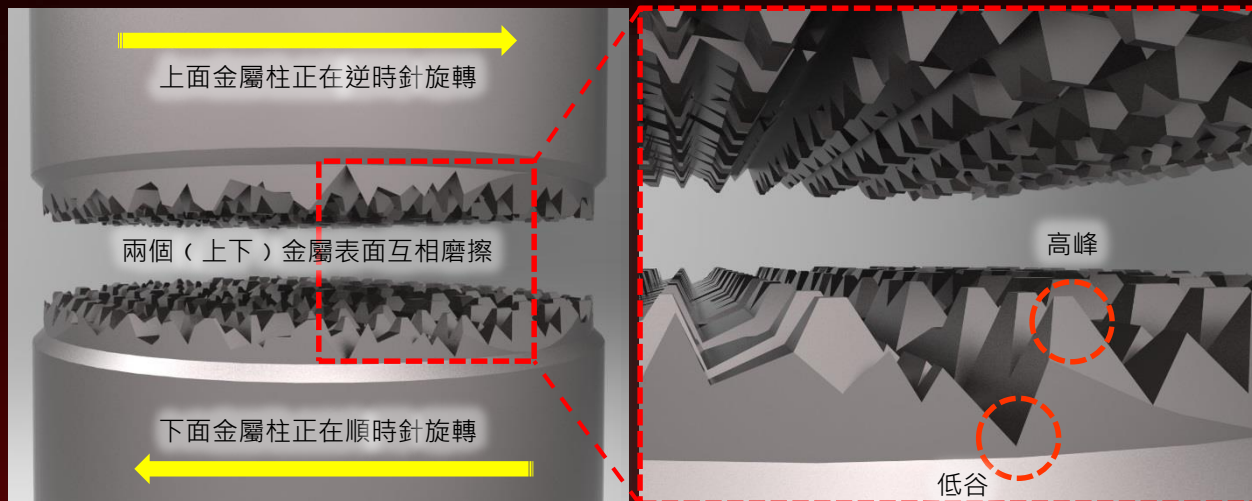
- 1.) Energy Loss 耗能
- 2.) Inefficient 效率低
- 3.) Heat 高熱
- 4.) Dysfunction 功能障礙
- 5.) Clogging 卡機
- 6.) Welding Up 燒結
- 7.) Fatal Damage 報廢



ABF 磁浮潤滑技術基礎

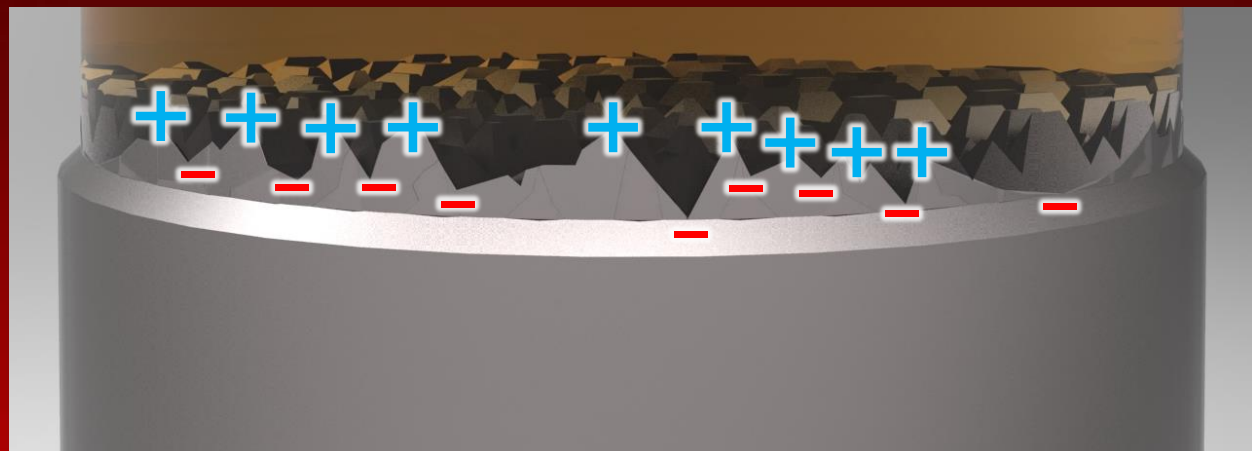
1. 金屬表面

金屬表面是由“高峰”及“低谷”組成，互動產生巨大阻力，這就是磨擦阻力的源頭。



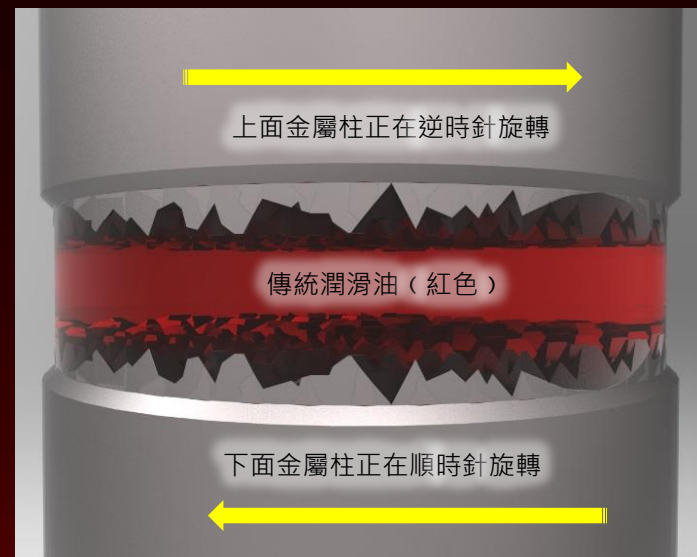
2. 表面的極性

“高峰”是帶正極的，而“低谷”是帶負極的。



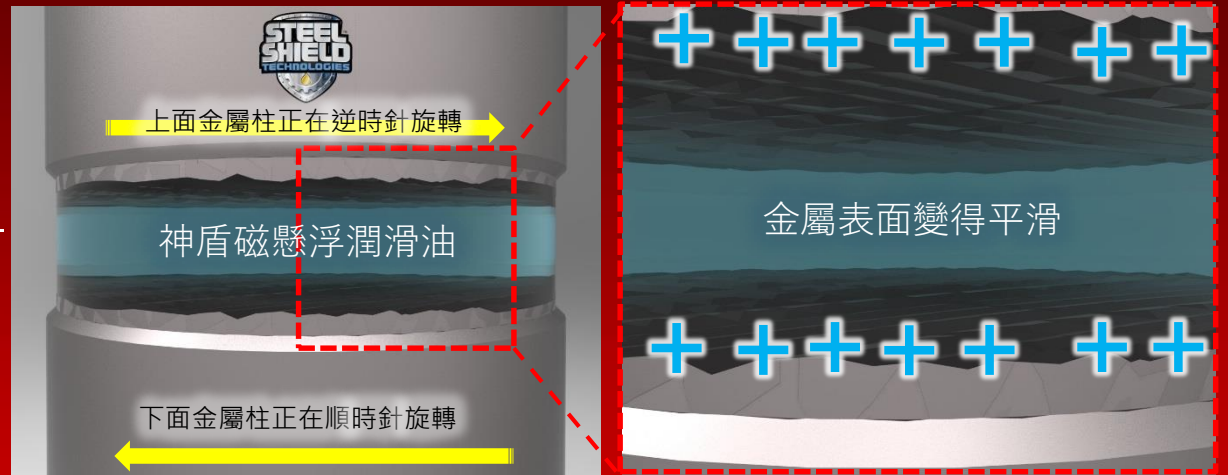
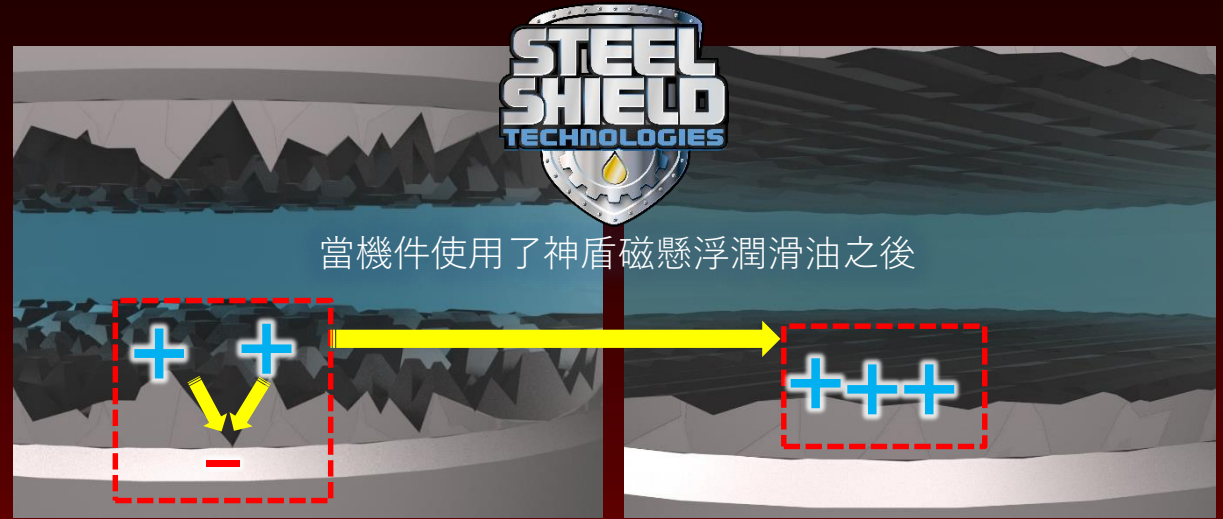
3. 傳統潤滑油

利用化學物質甚至軟金屬元素(moly 鉬)來改變油品的特性，短暫緩和金屬磨損，這類元素互相制衡甚至因交叉反應產生酸性物質，有腐蝕金屬件之嫌。傳統潤滑之所謂磨合(run in)“金屬平整功能”，實質是要機件互相斬砍，讓凸出的部份被削平，金屬脫落做成部件的原公差值劣化。機件不停碰撞產生碎屑，混合潤滑油，磨損更嚴重。



4. 神盾磁懸浮潤滑

離子鍵轉移激活，金屬表面呈正極電荷狀態，法拉第定律的一股同極互斥能量於兩面互動金屬面之間形成，這能量會對突出的金屬部分進行徑向擠壓，往周邊微孔和裂縫推填並且撫平其表面，跟常規的縱向剪切方式完全相反，不但不會改變金屬體原有質量(mass)和公差值(measurement)，而且加固了金屬表層的堅硬度。

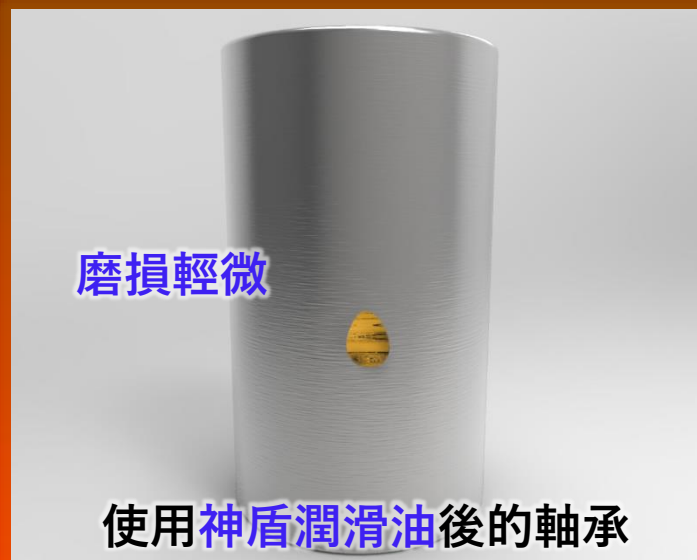
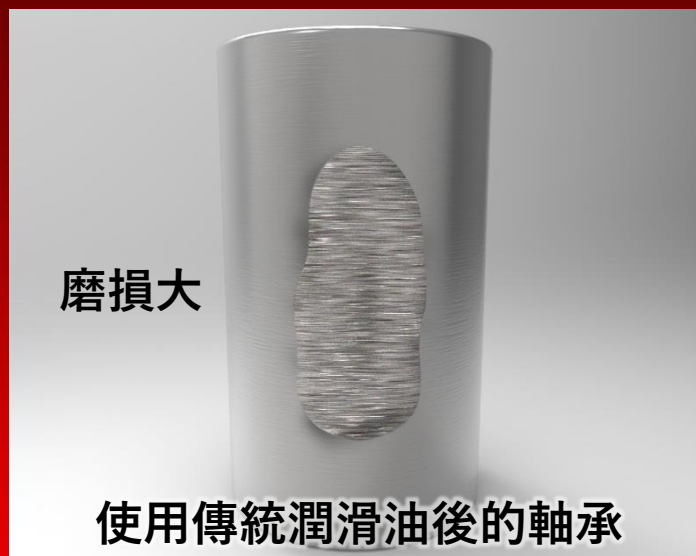


5. 神盾磁懸浮與傳統潤滑的抗磨對決

神盾不會改變或者提升潤滑劑（載體）的基本參數和功能，它獨有的離子鍵轉移技術確實的改變了兩面金屬的互動常態，產生磁懸浮效應。在磁浮狀態下，負載值與摩擦力之間呈冪函數關係，即在負載達到一定值后，增加負載量對摩擦力值的實質改變是“零”，摩擦力值趨向一恒定值。此時表明，在摩擦接口上，負載已基本上由離子磁場所完全承擔并使摩擦接口保持一定的間隙，而潤滑劑此時的僅有功能只起傳熱作用吧了！



軸承



神盾磁浮潤滑五大突破

1. 虛擬零摩擦 – RCB 離子磁懸浮

法拉第定律同極相斥，偶極反應原理

2. 動態追熱和保護功能

活性因子動態追熱

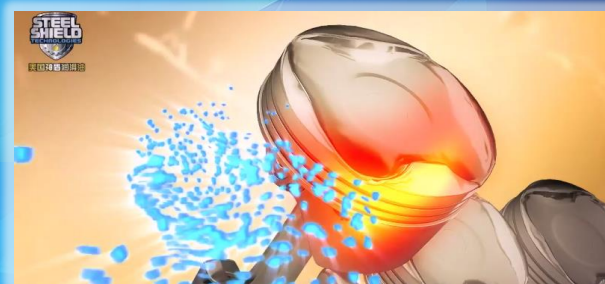
3. 無腐蝕誘導技術物理排污

磁誘導技術徹底清潔金屬碎屑

4. 金屬表層加固

縱向剪切轉為定向擠壓改善表層金屬剛度

5. 運動中保護，降低系統故障



Not Just Oil · It Is 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@weaponshield.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.
 Steel Shield Technologies, Inc.
 President-Technical Division
<http://www.steelshieldtech.com/>
<http://www.weaponshield.com>

-----Original Message-----
 From: Bill Rapponi [mailto:bill.rapponi@gmail.com]
 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 8F5F5 [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
 Steel Shield Technologies, Inc.
 3331 Industrial Blvd.
 Bethel Park, PA 15102-2543

Mark,

I wanted to take time to express my sincerest thanks to you and Steel Shield 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 "lubed" 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 cans were emptying the 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
 USAR

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

Mary 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) +1 270 644 698 2647
 (HQ) +1 479 628 7857
adrianroskie@tdi.com / tdi.com



Military Services

www.weaponshield.com

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

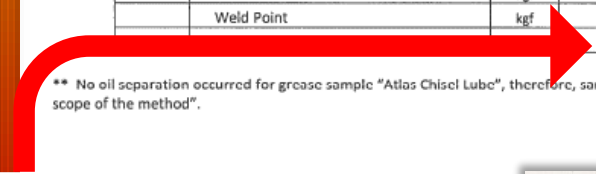
* No oil separation occurred for grease sample "Yamamoto EP grease", therefore, sample is considered "outside the scope of the method".



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

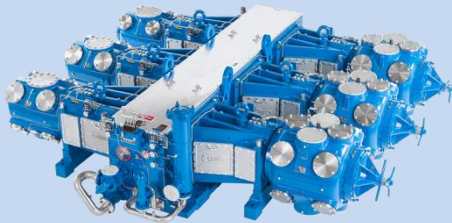
STEEL SHIELD GAS ENGINE OILS AND COMPRESSOR OILS ASTM D2782 TIMKEN TESTS

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 :

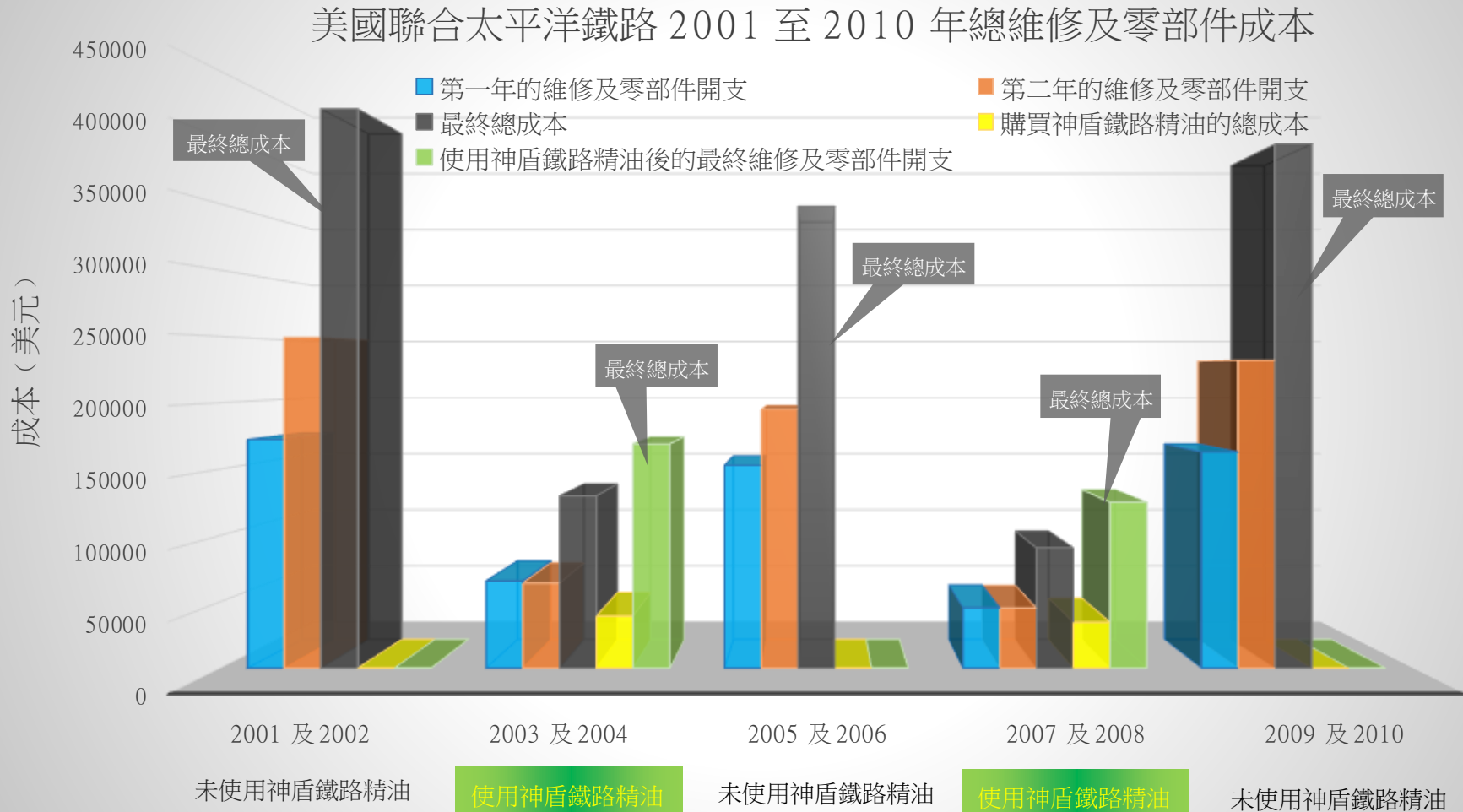
Steel Shield outperforms Mobil in the Weld Point (oil strength in resistant to EP) parameter by 129 % and in the Last Non Seizure Load (wear performance in respect to load) by 159 %.

***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

美國聯合太平洋鐵路成本節省報告

美國聯合太平洋鐵路總維修及零部件成本比較 使用神盾前 對 使用神盾後





大幅提升產能及降低維護時間
使用神盾鐵路潤滑劑
是您唯一的選擇！



使用高級邊界膜技術的神盾鐵路潤滑劑

- ABF離子轉移磁浮技術，高效提升潤滑及負載能力
- 形成一層複雜的斥力保護牆於兩面金屬面之間
- 經 ABF 技術處理後的金屬面變得極之平滑，而金屬的各種特性亦同時被優化
- ABF 技術讓工作溫度下降，金屬件工作於適溫狀態，磨損減少，抗極壓性能亦被提升

使用神盾鐵路潤滑劑所得到的益處

- 增加列車行駛速度
- 列車到站更準時
- 延長零部件壽命及可靠性
- 減少維修及停機時間
- 減少金屬互相磨擦
- 節省能源
- 降低運作溫度
- 機件操作時更順暢
- 保護活動組件



節省
成本



中央地區的 M/W 設備 (動力組件)

專題報告一

- 在 2001 及 2002 年，
未有使用神盾鐵路潤滑劑於任何動力組件或其他 M/W 零部件
- 在 2003 及 2004 年
採用神盾鐵路潤滑劑於動力組件包括傳動系統、液壓系統、齒輪系統及差速系統



Not Just Oil...
IT'S TECHNOLOGY

2001 至 2004 年美國聯合太平洋鐵路成本節省比較

2001 及 2002 (未有使用神盾油)	2003 及 2004 (使用神盾油)
系統維修成本 = \$172,296 + \$249,476 = \$421,772 (每年平均 \$210,886)	系統維修成本 = \$65,722 + \$64,021 = \$129,742 (每年平均 \$64,871)
	神盾鐵路潤滑劑成本 = \$21,195 + \$18,000 = \$39,195 (每年平均 \$19,598)
	聯合太平洋鐵路總成本 = \$168,937 (每年平均 \$84,469)
	聯合太平洋鐵路節省的開支 = \$252,835 (每年平均 \$126,417)
	使用神盾鐵路油的投資回報 (ROI) = $\frac{\$252,835 - \$39,195}{\$39,195}$ = 5.45 (545% 回報率)
(以上為美元)	(以上為美元)



節省
60%
成本

* 註：以上節省的開支不包括工資、租金、停機時間或延誤

* 投資回報：節省的開支 - 成本 = ROI
成本



美國聯合太平洋鐵路 2005 至 2008 年成本節省報告

專題報告二

• 2005 至 2006 年

美國聯合太平洋鐵路維修成本 (沒有使用神盾油)

• 2007 至 2008 年

美國聯合太平洋鐵路採用神盾油的成本分析。



註：所有核心損壞及應用的維修成本為平均數

所有維修均為潤滑失效及過度磨損所引致

維修成本並不包括工資、停機時間、租金或延誤

	維修點	每個單位的成本	2005 年的維修單位		2006 年的維修單位		2007 年的維修單位		2008 年的維修單位	
			單位	成本	單位	成本	單位	成本	單位	成本
零部件的 年均維修 成本	動力系統	12,000.00	4	48,000.00	6	72,000.00	1	12,000.00	0	0
	變速系統	11,000.00	3	33,000.00	4	44,000.00	0	0	1	24,000.00
	差速系統	1,300.00	2	2,600.00	4	5,200.00	1	1,300.00	0	0
	液壓系統油泵	4,000.00	10	40,000.00	8	32,000.00	4	16,000.00	5	14,000.00
	閘門失效	935.00	3	2,800.00	3	2,800.00	0	0	2	2100
	液壓系統汽缸	600.00	12	7,200.00	15	9,000.00	6	3,600.00	5	3,800.00
	液壓系統發動機	2,500.00	8	20,000.00	12	30,000.00	5	12,500.00	1	1200
	年均維修成本			\$153,000.00		\$195,000.00		\$45,400.00		\$45,100.00



美國聯合太平洋鐵路 2005 至 2008 年成本節省報告

專題報告二

- 2007 年，美國聯合太平洋鐵路購買了 USD \$20,394 神盾鐵路潤滑劑
- 2008 年，美國聯合太平洋鐵路購買了 USD \$14,100 神盾鐵路潤滑劑



	2005 年	2006 年	2007 年	2008 年
系統失效成本	153,000	195,000	45,400	45,100
神盾鐵路精油成本			20,394	14,100
總成本	153,000	195,000	65,794	59,200

2005-2006 與 2007-2008 年度美國聯合太平洋鐵路成本節省比較

2005 及 2006 (未有採用神盾鐵路潤滑劑)	2007 及 2008 (採用神盾鐵路潤滑劑)
系統維修成本 = \$153,000 + \$195,000 = \$348,000 (每年平均 \$174,000)	系統維修成本 = \$45,400 + \$45,100 = \$90,500 (每年平均 \$45,250)
	神盾鐵路精油成本 = \$20,394 + \$14,100 = \$34,494 (每年平均 \$17,247)
	聯合太平洋鐵路總成本 = \$124,994 (每年平均 \$62,497)
	聯合太平洋鐵路節省的開支 = \$223,006 (每年平均 \$111,503)
	使用神盾鐵路精油的投資回報 (ROI) = $\frac{\$223,006 - \$34,494}{\$34,494}$ = 5.46 (546% 回報率)
(以上為美元)	(以上為美元)

**節省
64%
成本**

* 註：以上節省的開支不包括工資、租金、停機時間或延誤



美國太平洋鐵路神盾產品編號

- 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

總結

- 美國神盾潤滑劑能夠提高列車行駛速度、使列車到站更準時、延長零部件壽命及可靠性，及減少維修及停機時間，因為神盾 ABF 技術非靠油，它讓兩面反向互動的金屬表面產生質的優化，讓離子磁浮能量替代常態潤滑油的流體潤滑以減少金屬互相磨擦及工作溫度。
- 美國太平洋鐵路對美國神盾潤滑劑進行以年計算的長時間測試，證實神盾對所有金屬部件有正面效益，值得信賴。
- 美國神盾潤滑劑幫助美國聯合太平洋鐵路每年平均節省60% 以上的維護成本。



CONTACT US

Steel Shield Technologies

Company Address:

香港, 屯門, 建發街 11 號,
好景工業大廈, B 座,
8樓, 809 B 室.

Email: steelshieldtech@yahoo.com

Tel: +852-25458029

Fax: +852-25458030

Website: www.steelshieldtech.com.hk

Facebook: www.facebook.com/steelshieldtech

