

Topic 4

Topic 4



The ISO 50001 Energy Treasure Hunt Seminar

Presenters: Vass Avram - Principal Scientist
Anan - Director; Operations

Date: July 2018

Background

In the seventies; the revolutionary Molecular Metal Treatment Technology (M2T2) Products were discovered and developed in the USA.

In the beginning, the company debut as a manufacturing & distribution entity for a variety of “M2T2” products encompassing energy efficiency in machines.

Y2003 - M2T2 subsequently penetrated various markets throughout Africa, Europe & Asia-Pacific ... inter-alia.

Y2012 - HQ in Singapore; Oilecules begun introducing the M2T2 products to various industries thru application of its energy efficiency cum asset performance maintenance solutions.

Our Mission & Strategy

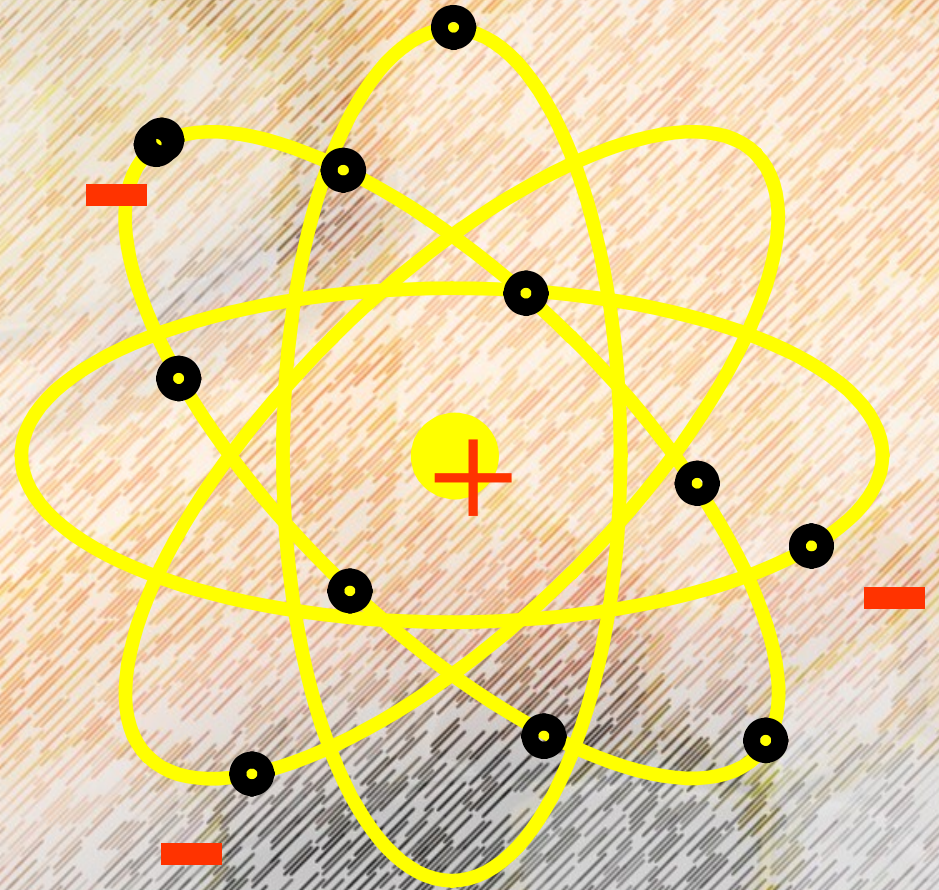
- *Provides consultancy and practical solutions through assessment & application of unique M2T2 Products on new/used machines /equipment.*
- *Enhances protection & performance of used/new machines /equipment for increased productivity and energy cost savings competency.*
- *Promotes the Green Energy Initiative and reduces carbon emission pollution factor.*
- *Collaborate with partners in the promotion of “The Green Initiative - ISO 50001 Energy Treasure Hunt” with Specialised Consultancy and Application of M2T2 Products.*

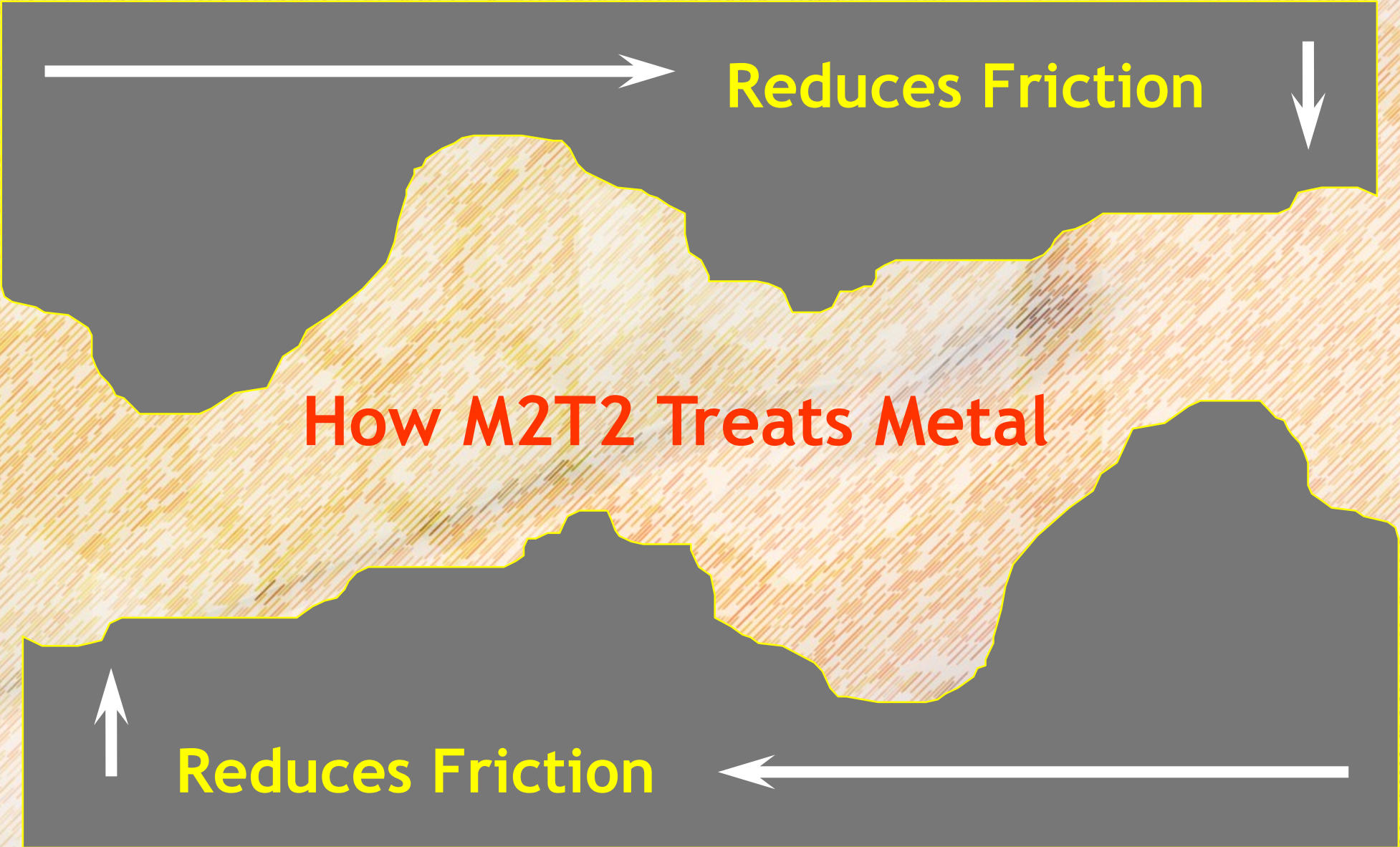
Feature and Benefits

- *M2T2 range of Products are not oil additives but a development through a unique Metal Treatment Formula based on Molecular Science Technology*
- *Reduces heat - prolonging oil change intervals;*
- *Improves performance and energy efficiency;*
- *Repels moisture - neutralises water (machine/equipment metal parts are protected);*
- *Eliminates up to 95% of machine/equipment parts wear and tear - extending up to double/triple the life span.*
- *Reducing carbon emission - cleaner energy environment.*
- *Enhancing performance and contributes to overall cost savings*

Characteristics of M2T2

- M2T2 has **positive** charge molecules (+)
- It is attracted to **hot metal** surfaces
- It provides **lubrication** where it is **most needed** to be protected
- It reduces operation **temperature**
- It leads to less load and smoother operation = **fuel saving**





How M2T2 Treats Metal

Reduces Friction

Reduces Friction

Range of Oilecules Products...at a glance

- *M2T2 range of Products are not oil additives but a development through a uniquely Metal Treatment Formula based on Molecular Science Technology:*
- *M2T2 Metal Treatment (EF)*
- *M2T2 Fuel Treatment (FC)*
- *M2T2 PenLube Treatment (PL)*
- *M2T2 Lithium Base EP-2 Grease*

Our Products *more in-depth!*



M2T2 Metal Treatment

M2T2 Metal Treatment - Automotive engineering:

- *Commercial Transportation (heavy trucks, buses, trains, locomotive....etc).*
- *Application at the core of combustion engines, transmission, hydraulics, steering and suspension systems.*
- *Moving components undergoes friction, pressure and heat which causes wear and corrosion, thus causing metal lethargy that would result in poor performance, carbon build-up, overheating and additional fuel consumption.*

M2T2 Metal Treatment

- M2T2 treatment penetrates the metal surfaces to address further wear and reduce friction **upto 95%**.
- Changing the metallurgical structure of the friction surfaces in ionising through the reaction of the molecules. This process reduces/resists wear under extreme pressure and excessive temperature.
- Metal surface will remain treated at all times and friction is substantially reduced, which results in much longer equipment life, improved performance, oil/fuel economy and reduce carbon emission.
- An excellent dispersant which dissolves any existing deposit build-up and holds sludge harmlessly in suspension, while preventing the deposition of varnish and lacquer on engine parts.
- Oil life is extended **3 to 5 times** and the PCV (Positive Crankcase Ventilation) valve remains free and clean from carbon deposits, sludge and varnish, thereby ensuring very clean and smooth engine operation.



M2T2 Fuel Treatment

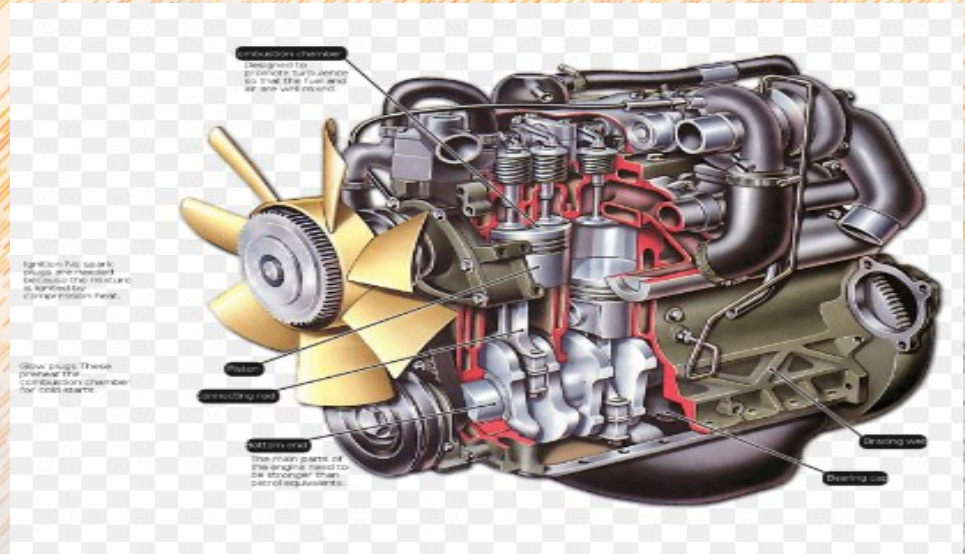
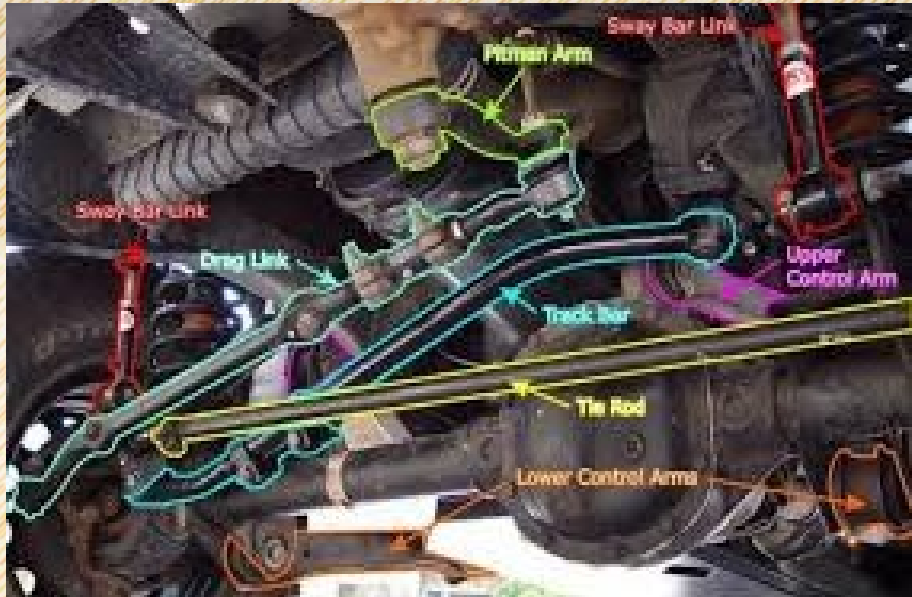
M2T2 Metal Treatment - Combustion Engines - Vehicles and mechanical machineries

- *Excavators & bull dozers*
- *Quarry & mining equipment*
- *Commercial generators*
- *Industrial and construction machinery*
- *Marine vessels, aviation, helicopters, trains*
- *Engines that run on petrol/diesel-based fuel*

M2T2 Fuel Treatment

Major issues overwhelming carbon build-up in the cylinders, fuel pumps, and injection systems, resulting in excessive black emissions it produces. This will affect the performance and throughput of the engines, thus causing environmental pollution and high carbon emission.

- M2T2 Fuel treatment utilises the fuel as a transport mechanism to enter these systems to treat the internal metallic surfaces of these components.
- Treated Metal would have enhanced anti-friction properties which would resist carbon build-up on its surfaces.
- This product is scientifically designed for much cleaner and more efficient fuel combustion.
- It cleans and lubricates the working parts of the fuel system and the upper part of the engine and dissolves/removes carbon deposits and prevents future harmful build-up, thus improving mileage and overall engine performance & neutralises water in the fuel.



M2T2 PenLube and Grease (Lithium based) Treatment

M2T2 Penlube and Grease Treatment - The Metal World!

- The biggest issues with metallurgy have always been rust and corrosion. With or without moving parts, metals exposed to the elements tend to rust, and over time, corrode.*
- This results in breakdowns, breakages, and ultimately, failures. Industries have been depending on conventional lubricants to protect metal surfaces and improve their mobility.*
- Conventional products do very little to seal the surfaces, and any improvement is counteracted by a build-up of sludge that eventually dampens mobility and performance, requiring constant maintenance and repair.*

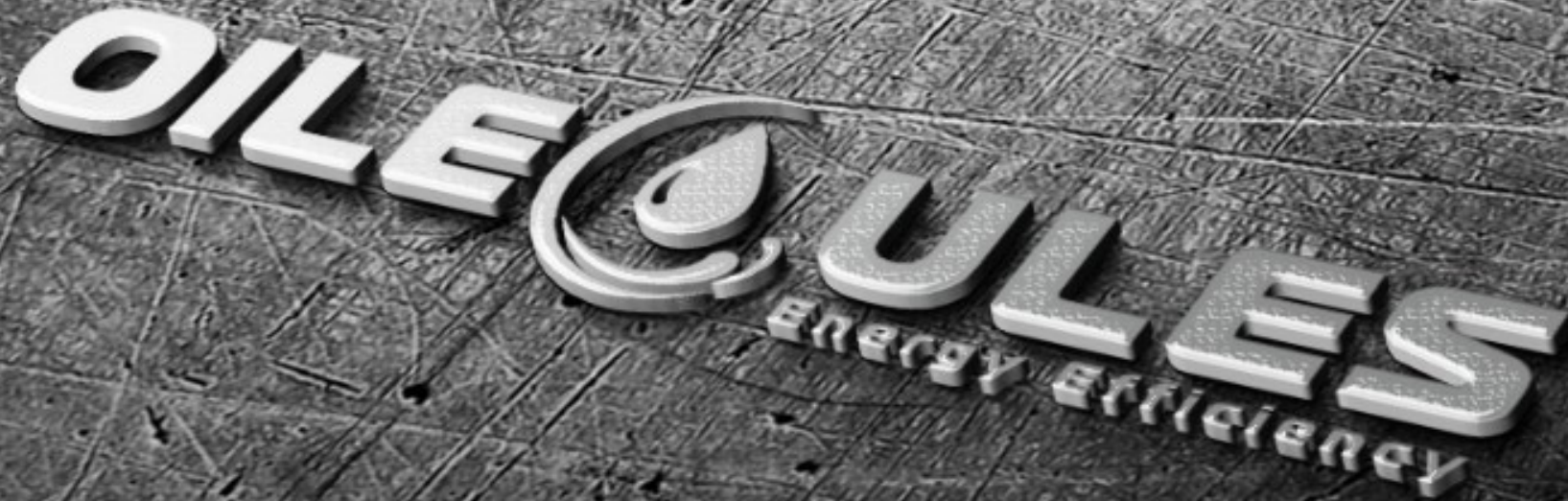
M2T2 PenLube and Grease (Lithium based) Treatment

A superior advanced metal treatment formulation that not only protects the metal surfaces on the surface, but also protects the metal surface at a molecular level to arrest further wear, thus reducing contact friction properties significantly, improving mobility and performance.

Products are scientifically blended to be the most effective whenever rust, corrosion or drag is a factor. Our treatment will not only smoothen the operation and also protects the surface of any metal mechanism.

Extremely effective for exposed metal parts





It is the Demo time ...

Topic 5

Topic 5

Demo time

- *Load test*
- *Application of M2T2*
- *Metal treatment reaction*
- *EP-2 Grease*
- *Pen Lube*
- *Fuel conditioner*
- *Burn test*
- *Q&A*