

# CERTIFICAÇÕES DO LUBRIFICANTE LUPROMAX



**BUREAU  
VERITAS**

## TEST REPORT

LAB NO. : (6607)303-0071  
DATE : November 2, 2007  
PAGE : 1 OF 4

**APPLICANT** : **Magna International Pte Ltd**  
Blk 9005 Tampines Street 93, #02-242 Tampines Industrial  
Park A, Singapore 528839.

**CONTACT PERSON** : Nelson Cheng

**DATE OF SUBMISSION** : October 30, 2007

**TEST PERIOD** : October 30, 2007 to November 2, 2007

**NO. OF WORKING DAY(S)** : 4

**SAMPLE DESCRIPTION** : Lupromax EA (amber)  
Country of Origin: Singapore  
Country of Destination: Singapore  
Manufacturer name: Magna International Pte Ltd

### SUMMARY OF TEST RESULTS

TEST REQUESTED	PASS	FAIL	REMARK
Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC	X		

### REMARK

If there are questions or concerns on this report, please contact the following persons:

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**BUREAU VERITAS**  
CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)

PREPARED BY : Nancy \_\_\_\_\_  
for  Matthias Chan  
CHEMICAL MANAGER (CHEMICAL DIVISION)

RW/2007

# CERTIFICAÇÕES DO LUBRIFICANTE LUPROMAX



Lab Order No : JMG/10005351/04  
Product : Lupromax-EA  
Company : Magna International Pte Ltd  
Blk 9005 Tampines Street 93  
#02-242 Tampines Industrial Park A  
Singapore 528839

Sample Recd. Date : 25-08-04  
Date Tested : 25-08-04  
Date Reported : 31-08-04

## ANALYSIS REPORT

Product : Lupromax-EA

On testing, the following results were obtained :

Test	Unit	Method	Results
Arsenic (As)	ppm	ICP	Not Detected
Lead (Pb)	ppm	ICP	Not Detected
Mercury (Hg)	ppm	ICP	Not Detected

Remarks : Detection Limit 0.1ppm.

SGS Testing & Control Services Singapore Pte Ltd

Zainal Abidin  
Assistant Manager

- 1) Tests performed in accordance with the latest issue of relevant test method unless otherwise indicated.
- 2) Unless specified, above results relate only to the items tested.
- 3) Precision parameters apply in the determination of the above results. Also refer to latest ASTM D3244, IP 367 & Appendix E of IP Standard Methods for analysis & testing, for utilization of test data to determine conformance with specifications.
- 4) This report shall not be reproduced except in full, without the written approval of the laboratory.

# CERTIFICAÇÕES DO LUBRIFICANTE LUPROMAX



## ANALYSIS RESULT

**PRODUCT** : LUPROMAX E.A  
**TEST** : EXTREME PRESSURE AND LUBRICITY TEST  
**METHOD** : SGS-SP-112  
**EQUIPMENT USED** : FALEX / TIMKEN TEST MACHINE

## COMPARISON DATA

PRODUCT	Temp	BATH	LOAD	TIME	SCAR SIZE (length)
Normal Engine oil	Ambient	Full	210 kg (463 lb)	Immediate Failure	5.26 mm
Normal engine oil with 8% Lupromax EA additive	Ambient	Full	210 kg (463 lb)	1 minute	Tiny polish mark
Normal engine oil with 8% Lupromax EA additive	Ambient	Full	456 kg (1005 lb)	1 minute	2.48 mm
Normal engine oil with 8% Lupromax EA additive with <i>water and sand added</i>	Ambient	Full	456 kg (1005 lb)	1 minute	2.48 mm
Normal engine oil with 8% Lupromax EA additive with <i>water and sand added</i>	With heat apply by means a Gas burner <b>500°C</b>	Full	456 kg (1005 lb)	10 seconds	4.77 mm
Normal engine oil with 8% Lupromax EA additive with <i>water and sand added</i>	With heat apply by means a Gas burner <b>500°C</b>	<b>Empty</b>	456 kg (1005 lb)	10 seconds	4.77 mm



# CERTIFICAÇÕES DO LUBRIFICANTE LUPROMAX



## TO TEST THE EFFECT OF LUPROMAX EA ON ENGINE OIL

**OBSERVATION :** On testing, the following observations were noted.

The normal engine lube oil under a load weight of **210 kg** (using Compound Leverage Principle) will cause the rotating bearing to seize. A scar mark was observed on the Timken bearing. The length of the scar mark was **5.26 mm**.

Lupromax EA was added to the same engine oil, which was then subjected to the same load weight . It was observed that the bearing proceeded with rotation and did not seize, a tiny polished marked was observed on the Timken bearing. Rotation continued even with a full load of **456 kg**. The scar mark was found to be **2.48 mm**.

When water and sand was added to the engine oil containing Lupromax EA, with the application of heat by means of the burner on the bearing for 30 seconds, no seizure was observed. The scar mark was found to be **4.77 mm**.

Subsequently the bath was removed from the Falex machine and the bearings were subjected to loads of 456 kg for 30 seconds. No seizure was observed. A scar mark of 4.77 mm was recorded.

**REMARK:** The said test shows that Lupromax EA enhances the lubricity and extreme pressure of common lubricating oil using **fusion / heat activated lubrication technology**.



# CERTIFICAÇÕES DO LUBRIFICANTE LUPROMAX

## REKOR DUNIA

(WORLD RECORD)



(CHARTERED AWARD)

PIAGAM PENGHARGAAN

### MUSEUM REKOR-DUNIA

(INDONESIA WORLD RECORD MUSEUM)

### INDONESIA

No. 5407/R.MURI/IV/2012

Dianugrahkan Kepada (AWARDED TO)

**PT. Magna Indonesia**  
( LUPROMAX )

ATAS REKOR (ON RECORD)

*Ketahanan Mobil dan Motor*

(RESILIENCE OF MOTOR CAR AND MOTORCYCLE)

*Berjalan tanpa Pelumas terlama*

(LONGEST RUN WITHOUT LUBRICATION)

(MOTOR CAR) Mobil : 283.8 Km - 8 Jam 5 Menit (8 HOURS 5 MINUTES)  
(MOTORCYCLE) Motor : 242.8 Km - 8 Jam 10 Menit (8 HOURS 10 MINUTES)

*Semarang, 29 April 2012.*

JAYA SUPRANA

# CERTIFICAÇÕES DO LUBRIFICANTE LUPROMAX



## Lupromax Sets World Record in MURI (Indonesia World Records Museum)



The Indonesia World Records Museum or MURI, its Indonesian acronym, is a unique museum founded by Jaya Suprana as a means of inspiring young Indonesians to excellence in their field of endeavor. Unlike the Guinness Book of World Records, the MURI Museum, recognizes only those in Indonesia who have attained World Record achievement in their field of expertise.

Since its beginning in 1990, the museum has given the MURI Award to the superlative of achievement in Indonesia's biggest, best, rarest and most unusual. In its 23 years of existence, MURI has honored more than 5,000 who have showed the world that the best can be found in Indonesia.

Magna's Lupromax distributor for Indonesia, Ruby Wijaja received the prestigious MURI Award for his test performance of Lupromax-EA oil additive in April 2012. The award was given in the category for Motor Cars and Motorcycles. The award itself is for the "Longest Run Without Lubricant" lasting more than 8 hours.

The test was arranged to take place on April 29, 2012 at Tangerang for the purpose of demonstrating to the automotive community that Lupromax has superb lubrication properties and to validate the functionality of "HAT" (Heat Activated Technology). We also wanted to prove publicly, the quality of Lupromax products through setting the MURI world record for "Running cars and motorcycles without oil." The recognition gained through this grueling test of machinery and technological advancements in lubricant research would awaken the public to alternative solutions regarding lubricant enhancement products and prove to the world that Lupromax-EA is the best on the market.

The method of the test was to add Lupromax-EA to the engine oil of an automobile and a motorcycle. After it was thoroughly mixed in each vehicle by running its engine, the oil was then completely drained from the engines. The vehicles were then driven round Bumi Serpong Damai(BSD) Square in Tangerang to see how long they could go until their engines seized from lack of sufficient lubricant.

This grueling test Lupromax-EA lasted 8 hours and 5 minutes for the car, covering 283 km. The motorcycle test lasted 8 hours and 10 minutes covering 242 km. The only reason they stopped was because the drivers were exhausted and it was enough to prove to the world that Lupromax EA fulfilled its performance claims of being the best lubricant additive on the market. This test proved to the Muri Museum that Lupromax is indeed a world class engine lubricant that enabled the auto and motorcycle to set a world record for running without oil. The award was given at their monthly ceremony in Jakarta, Indonesia to PT Magna, Indonesia for Lupromax and its world record setting achievement.

Lupromax-EA and the other items in their product line are destined to become a household name and people's first choice in lubricant enhancing additives.

**CERTIFICAÇÕES DO LUBRIFICANTE LUPROMAX**

*Society of Tribologists and Lubrication Engineers*



Founded 1944  
Chicago, Illinois

This certifies that

**Magna International Pte. Ltd.**

is a Corporate Member of this Society  
organized to promote the advancement of the knowledge and application  
of lubrication and related arts and sciences (Tribology).

*September 2007*

*Edward Saleh*  
EXECUTIVE DIRECTOR