



TEST REPORT

Mechanical & Hardgoods Lab

報告號碼： YA90016/2012

頁數： 1 of 3

日期： 2012 年 10 月 09

有撰實業有限公司

新北市泰山區新生路 53-2 號

以下測試樣品係由客戶所提供及確認：

產品名稱： 鈐硼鈹複合元素-金屬表面、潤滑油強化劑

原產國： 台灣

我們依照客戶的要求,根據客戶送交之樣品進行測試結果如下：

測試要求： 振動總值及音量量測

測試方法： --詳附頁--

測試結果： --詳附頁--

收樣日期： 2012 年 09 月 17 日

測試日期： 2012 年 09 月 17 日 ~ 10 月 09 日

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Signed for and on behalf of
SGS Taiwan Ltd.

陳信佑

實驗室地址：

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陳信佑

組長

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測試方法：

1. 將音量計架設於離地面 60cm 處，量測背景音量 10 分鐘，並記錄最大值及最小值。
2. 清洗並擦乾油杯及轉動輪，加入 20ml 之 M 牌機油-SAE10W40(客戶提供)，讓設備運轉 10 分鐘後，開始量測並記錄馬達端、連桿末端之振動總值及最大和最小之音量。
3. 將油杯中的油倒掉，清洗並擦乾油杯及轉動輪，加入 20ml 之 M 牌機油-SAE10W40 (客戶提供)及 1.5ml 之「鈐硼鈹複合元素」(客戶提供)，讓設備運轉 10 分鐘後，開始量測並記錄馬達端、連桿末端之振動總值及最大和最小之音量。
4. 重複 2 和 3 的步驟二次。

備註：a.音量計設備：SL-4012 (Sensitivity: 30 ~ 130 dB)

b.振動總值量測設備：加速規 ICP601A01(Sensitivity:11.6 mV/(m/s²))、譜威科技 PW-705G 頻譜分析儀測試結果：

背景音量(WA)	最大(dB)	最小(dB)
	55.1	52.3

音量(WA)	20ml 之 M 牌機油-SAE10W40		20ml 之 M 牌機油-SAE10W40 及 1.5ml 之「鈐硼鈹複合元素」	
	最大(dB)	最小(dB)	最大(dB)	最小(dB)
第一次量測	78.5	72.3	68.8	62.3
第二次量測	79.7	71.4	67.5	61.5
第三次量測	76.5	73.5	66.9	61.2

振動總值	20ml 之 M 牌機油-SAE10W40		20ml 之 M 牌機油-SAE10W40 及 1.5ml 之「鈐硼鈹複合元素」	
	馬達端(m/s ²)	連桿末端(m/s ²)	馬達端(m/s ²)	連桿末端(m/s ²)
第一次量測	4.2	3.2	3.0	2.4
第二次量測	4.1	3.3	2.9	2.3
第三次量測	4.3	3.5	2.8	2.5

備註：振動總值量測設定：頻寬 200Hz / 800 條

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- 照片 -



“照片 A” 樣品外觀

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