测试报告

No. SHAEC1826456502 **日期: 2018 年 10 月 03 日** **第 1 页,共 6 页**

斯卡兰石油（重庆）有限公司

中国重庆市渝北区黄山大道高科总部大厦 H 栋 7-4

以下测试之样品是由申请者所提供及确认：斯卡兰钢锰特精铝拉延油

SGS 工作编号：	**SP18-039201 - SH**
样品接收日期 ：	**2018 年 9 月 27 日**
测试周期：	**2018 年 9 月 27 日 - 2018 年 10 月 03 日**
测试要求：	根据客户要求测试
测试方法：	请参见下一页
测试结果 ：	请参见下一页
结论：	基于所送样品进行的测试，镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863 的限值 要求。

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授权签名

Dora Hu 胡敏
批准签署人

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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Testing Center-Chemical Laboratory

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测试结果：

测试样品描述：

样品编号	SGS 样品 ID	描述
SN1	SHA18-264565.001	无色透明液体

备注：

(1) 1 mg/kg = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863

测试方法： 参考 IEC 62321-4:2013+AMD1:2017 ， IEC 62321-5:2013 ，IEC 62321-7-2:2017 ，IEC 62321-6:2015 和 IEC 62321-8:2017，采用 ICP-OES，UV-Vis 和 GC-MS 进行分析。

测试项目	限值	单位	MDL	001
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND

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测试项目	限值	单位	MDL	001
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863 。 IEC 62321 系列等同于 EN 62321 系列

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:125863 7,25

(2) 2015 年 6 月 4 号发表在欧盟官方杂志（官方公报）上的 RoHS 指令(EU) 2015/863 附录 II 限值中还包括邻苯
二甲酸酯 BBP，DBP，DEHP 和 DIBP。新的指令限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含量不得超过 0.1%。

(3) 2021 年 7 月 22 号开始，DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械，包括体外医疗器械，监控仪表，包括工业监测和控制仪器。

(4) DEHP，BBP，DBP 和 DIBP 的限制不适用于 2019 年 7 月 22 日前投放市场的电缆及电子电气产品中用于维修、重复利用、功能更新及容量提升的备用配件以及 2021 年 7 月 22 日前投放市场的医疗器械，包括体外医疗器械，监控仪表，包括工业监测和控制仪器。

(5) DEHP、BBP 和 DBP 的限制不适用于玩具产品，因为 No.1907/2006 附录 XVII 第 51 条已对玩具产品中的 DEHP、BBP 和 DBP 含量进行了限制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

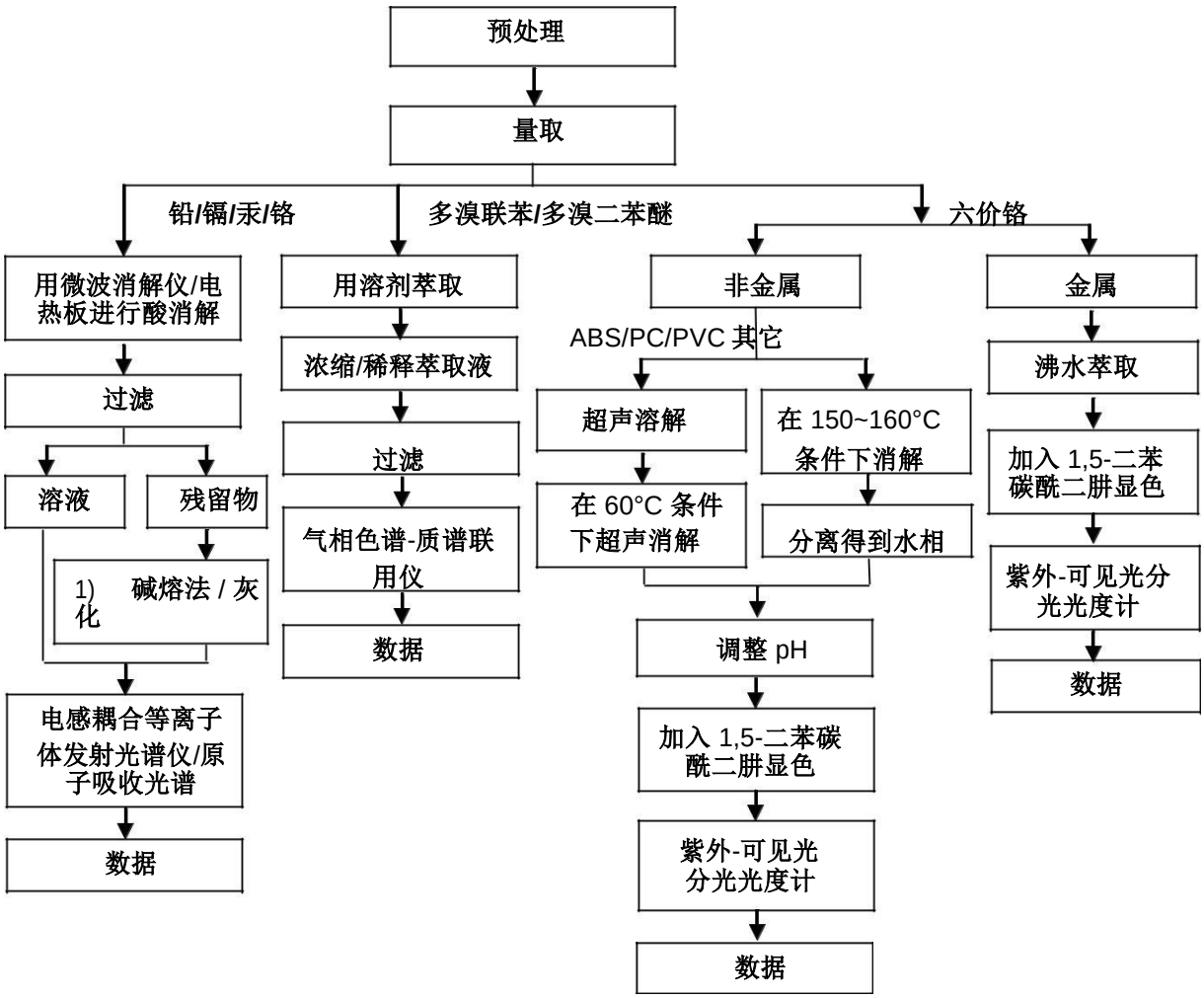
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附件

Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs 测试流程图

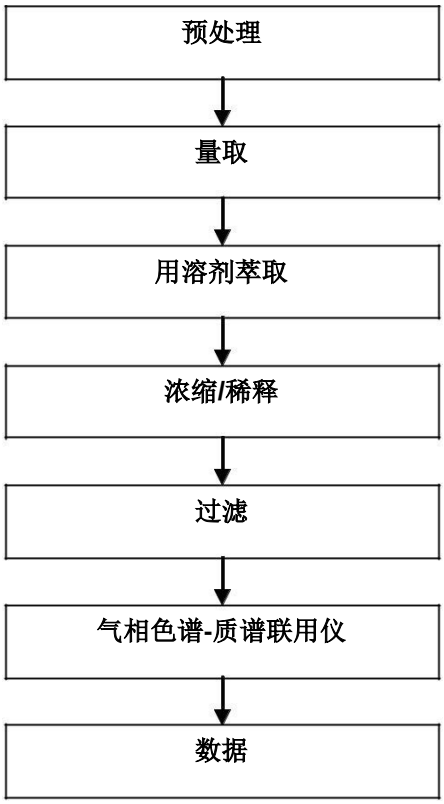
1)样品按照下述流程被完全消解（六价铬和多溴联苯/多溴二苯醚测试除外）。



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附件

Phthalates 测试流程图



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