



REPORT

CUSTOMER'S REF NO:
ALS THAILAND REF NO: ELP-1145-IB
DATE: 21/9/2015
COMPANY: Boyd Technologies (Thailand) Co., Ltd.555 Rasa Tower II, Unit 14

DATE SAMPLE RECEIVED: 9/2/2015
DATE ANALYZED: 9/2/2015
DATE TEST COMPLETED: 17/2/2015
SAMPLE DESCRIPTION: One lot of sample was received with references:
Description: Makara Bottom Damper (E-Polishi
Model: P/N: 709700100
Surface Area: 0.39 Sq.inch (2 side)
Remark:

METHOD/PROCEDURE:

Analysis	Procedure No	Number of pieces used for extraction	Extraction Medium	Extraction Volume
IC	20800010-280 Rev.BE	8	Ultrapure Water at 80oC	20ml

RESULT:

The Specification is based on Seagate's Doc 20800010-280 Rev.BE for Damper (Internal & External to HDA), ACA Damper, VCM Damper

Anionic Contamination	Specification Limits,()	Results,()
Fluoride as F	< 0.1	<0.0005
Chloride as Cl	< 0.1	<0.0005
Nitrite as NO2	< 0.1	<0.0005
Bromide as Br	< 0.1	<0.0005
Nitrate as NO3	< 0.1	<0.0005
Sulfate as SO4	< 0.1	0.018
Phosphate as PO4	< 0.1	0.1886
Total of 7Anions	< 0.20	<0.2091

Cationic Contamination	Specification Limits,()	Results,()
Lithium as Li	NA	<0.0006
Sodium as Na	NA	0.0054
Ammonium as NH ₄	< 0.2	0.0031
Magnesium as Mg	NA	<0.0006
Potassium as K	NA	<0.0006
Calcium as Ca	NA	<0.0006
Total Cations	NA	<0.0109

ALS Testing Services
(Thailand) Co.,Ltd.

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