

# TEST REPORT

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SetSCO Services Pte Ltd  
18 Teban Gardens Crescent  
Singapore 608925  
Tel : (65) 6566 7777  
Fax: (65) 6566 7718  
www.setsco.com  
Business Reg. No. 196900269D

## MAGNETIC PARTICLE TESTING (MT)

Our Ref. : **NI-8500158648/MMJ**

Date : 28/04/2021

Customer Ref. : -

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**Customer** : **OPAI (SINGAPORE) PTE LTD**

1 BUKIT BATOK CRESCENT

#08-14, WCEGA PLAZA,

(S) 658064

Attention : **Mr Francis Ang**

### Job Details

Project Title : **BJT PROJECT**

Date of Test : 28 April 2021

Location of Test : 38, Joo Koon Road

### Test Requirements

Standard / Code : BS EN ISO 17638 - 2016

Test Procedure : NDT/TP/MT/30 (Rev.3)

Acceptance : BS EN ISO 23278 - 2015 (Table 1)

### Details of Item(s) Tested

Description : Support Steel Frame Weld Joints

Material : Carbon Steel

Thickness : 5~10mm

Type of Weld / Welding Process : Fillet / MMAW

Surface Temp : Ambient

Surface Condition : As Welded

### Equipment

Description : Electromagnetic Yoke

Serial Number : 15553

Make / Model : Electro-Spect Testing Systems Inc / ES-X Ferrous Pro

Current Type : AC

### Test Media

Contrast Medium : SHERWIN / CP-2

Batch No. : 1504-400-27-0820

Particles : SHERWIN / BO-1

Batch No. : 1503-400-22-0920

### Method of Testing

Test Method : Wet (Visible)

Magnetizing Method : Continuous

Viewing Condition : White Light Intensity of min 100 fc (1000Lx)

### Post-Examination

Cleaning : NA

Demagnetization : NA

**Testing Officer** : Mohamed Mubin Bin Amad Jais

**Qualification** : ASNT Level II

**Test Results** : Refer next page for test results and photos of items tested.

**Note** : This test report consists of results for magnetic particle testing only and does not cover the visual examination acceptance of the welds and its sizes.



Abdul Rahim b Hassan  
PCN Level 2  
(Supervisor)



Maung Tint Lwin  
Manager  
(NDT / Inspection)  
Mechanical Technology Division

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LA-1993-0051-C LA-1998-0144-D  
LA-1993-0067-G LA-2000-0181-F  
LA-1994-0068-A LA-2012-0519-E  
LA-1987-0001-B LA-1987-0001-B-1

Our Ref. : NI-8500158648/MMJ

Test Results:

No.	Weld Identification	Tested Length (mm)	Evaluation			Results	Remarks
			Distance from Datum (mm)	Discontinuity Length (mm)	Discontinuity Type		
#	Support Steel Frame Weld Joints						
	Jt 1 to Jt 10 (Total: 10 Joints)	-	-	-	A	S	Refer to photos
Note: The above item tested was carried on accessible area only.							

**Legend :**

**S** Satisfactory

**U** Unsatisfactory

**Type of Discontinuities :**

**A** No Significant Discontinuity

**D** Lack of Fusion

**G** Slag Line

**J** Undercut

**B** Porosity

**E** Incomplete Penetration

**H** Longitudinal Crack

**K** Transverse Crack

**C** Wormhole

**F** Slag Inclusions

**I** Crater Crack

**L** Cluster Porosity



**PHOTOS ATTACHED**

