Telephone: (07) 4942 5600 Fax: (07) 4942 5746 17 FURSDEN ST, GLENELLA, MACKAY, QLD 4740 PO BOX 8267, MT PLEASANT, MACKAY, QLD 4740

SB 24th March, 2023 Page 1 of 14

INSPECTION REPORT NO. M23-9255

CLIENT: Golding Contractors Pty. Ltd.

CLIENT CONTACT: Mr. D. Logan

<u>ORDER NO.</u>: 4500442825

MACHINE IDENTIFICATION: Hitachi EX3600 Excavator EX0043

SUBJECT: Inspection and non-destructive testing of Hitachi

EX3600 excavator EX0043 boom and stick at

Broadlea Coal Mine.

DATE OF TEST: 10th March, 2023

INSPECTOR: Mr. M. J. Shields

TEST DATA:

Test Equipment - Krautkramer/GE USM35XS Flaw Detector

Krautkramer/GE MB4SE SWB 70° & 45° 2E Transducers

Electro-Spect 240V AC Bridge Magnet

8901W White Background/800/3 Black Magnetic Ink

Test Method - A.S.3978 (2003) MTP-101

A.S.1171 (1998) MTP-102

A.S.2207 MTP-104 UMA2 & UMB2

Demagnetised - No

Material Specification/Type - Not specified / Carbon steel is client supplied information Couplant - Ardrox 800/3

Sizing Method - LSE

Acceptance/Rejection Criteria - Report all cracks and discontinuities detected

Surface Condition - Painted. Conforms to A.S.2207 Clause 3.3

Limitations of Test - Client nominated components only.



RESULTS OF EXAMINATION

VT - Visual Testing

MT - Magnetic Particle Testing

UT - Ultrasonic Testing

HITACHI EX3600 EXCAVATOR EX0043

SECTION C: MAIN FRAME (VT/MT/UT)

Cracks detected. Refer to Defect Table for locations and lengths.

SECTION D: BOOM EXTERNAL (VT/MT/UT)

Cracks detected. Refer to Defect Table for locations and lengths.

SECTION E: BOOM INTERNAL (VT)

No Access.

SECTION F: STICK ATTACHMENT EXTERNAL (VT/MT/UT)

Cracks detected. Refer to Defect Table for locations and lengths.

SECTION G: STICK INTERNAL (VT)

No Access.

RESULTS OF EXAMINATION

VT - Visual Testing

MT - Magnetic Particle Testing

UT - Ultrasonic Testing

HITACHI EX3600 EXCAVATOR EX0043 CONT'D

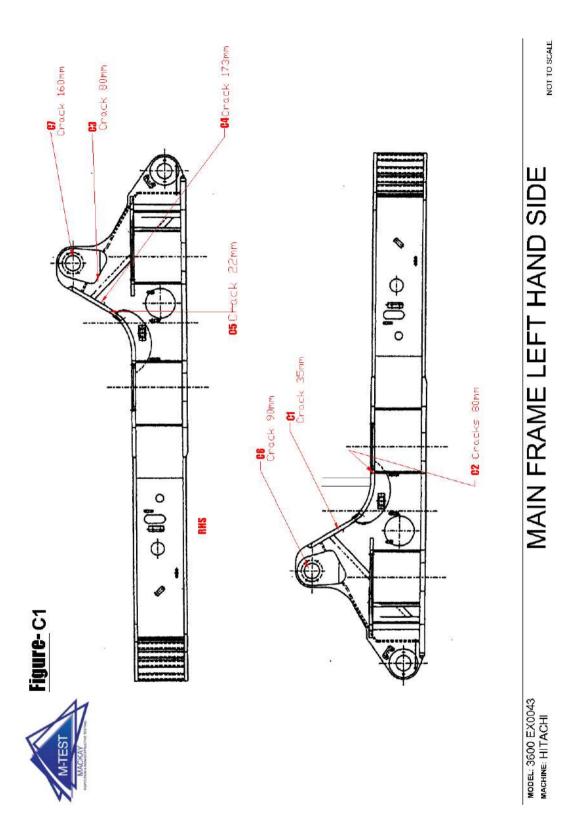
DEFECT TABLE

Defect No.	Location	Defect Details		Figure
		Туре	Length (mm) / Description	No.
C1	Main Frame Right Hand Side	Crack	35	C1
C2	Main Frame Right Hand Side	Cracks	80 & 440	C1
C3	Main Frame Right Hand Side	Crack	80	C1
C4	Main Frame Right Hand Side	Crack	173	C1
C5	Main Frame Right Hand Side	Crack	22	C1
C6	Main Frame Left Hand Side	Crack	90	C1
C7	Main Frame Left Hand Side	Crack	160	C1
D1	Boom Left Hand Side	Possible Crack	-	D1
D2	Boom Left Hand Side (Inboard side from hoist cylinder)	Wear	-	D1
D3	Boom Left Hand Side (Inboard side from previous repair)	Cracks	-	D1
F1	Stick	Crack	185 through 50mm plate	F1
F2	Stick	Crack	80	F1
F3	Stick (Inboard)	Crack	100	F1

M. J. SHIELDS

Inspector

Att..



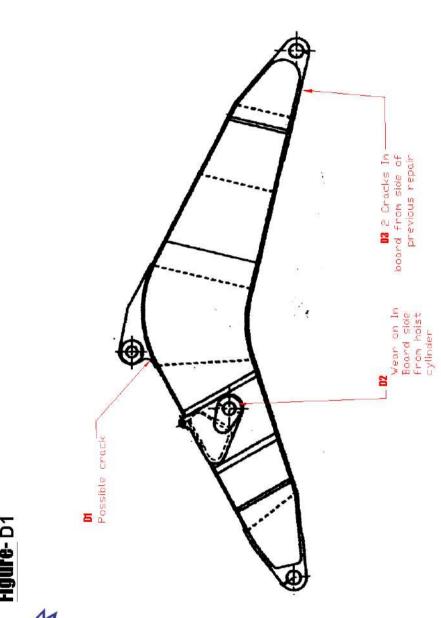
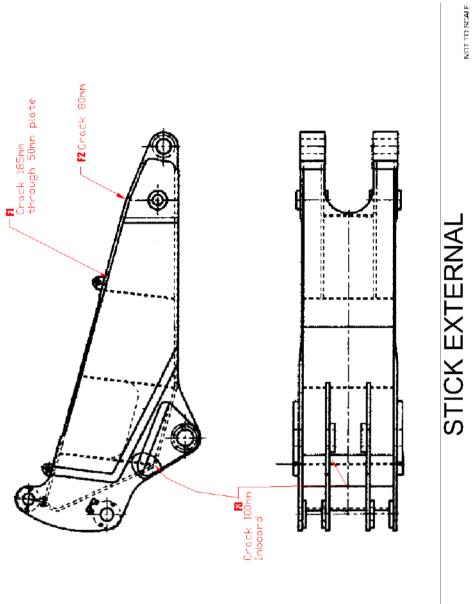


Figure- D1







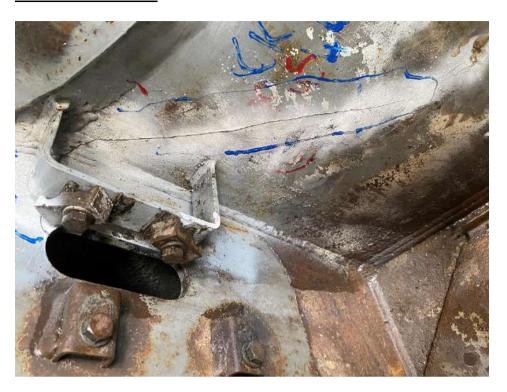


MODEL: 3600 EX0043
MACHINE: HITACHI



DEFECT NO. C2



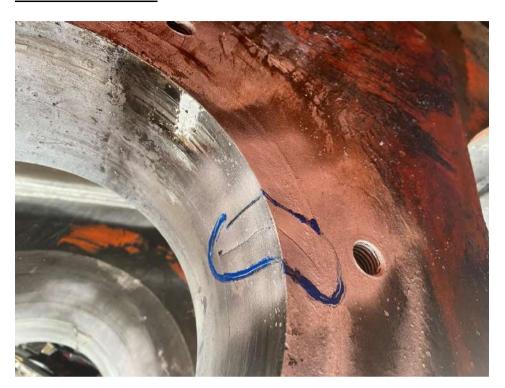






DEFECT NO. C5





DEFECT NO. C7





DEFECT NO. D1





DEFECT NO. F2





DEFECT NO. F3



TERMS OF REPORT

M-Test (Mackay) Pty. Ltd. and associated companies operating with M-Test (Mackay) Pty. Ltd. make reasonable efforts to ensure an accurate understanding of client requirements. The information in this report is based on this understanding and M-Test (Mackay) Pty. Ltd. strives to be accurate in its advice.

Where a report is electronically transmitted or copied to media storage device, M-Test (Mackay) Pty. Ltd. takes no responsibility whatsoever for this information in such format. Only the original hard copy is the authentic version of this report.

While reasonable care has been taken in the preparation of this report, this report and all information, assumptions, and recommendations herein are published, given, made, or expressed without any responsibility whatsoever on the part of M-Test (Mackay) Pty. Ltd. whether arising by way of negligence, breach of contract, breach of statutory duty or otherwise.

This disclaimer shall apply to liability to any person whatsoever, irrespective of how such liability arises, whether by use of this report by that person or you or any other person or otherwise.

M-Test (Mackay) Pty. Ltd. is not responsible in any way whatsoever for the error, neglect or default of others upon whom it has placed reliance in the preparation of this report.

You shall indemnify M-Test (Mackay) Pty. Ltd. and its directors, employees, servants, agents, consultants, successors in title and assigns against any claim made against any or all of them and third parties arising out of the disclosure of the report, whether directly or indirectly to a third party.