



M-TEST (Mackay) Pty. Ltd. A.C.N. 010 691 906
A.B.N. 35 010 691 906
for **INSPECTION AND NON-DESTRUCTIVE TESTING**

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MJS/MC
10th January, 2019
Page 1 of 15

INSPECTION REPORT NO. M20-015

CLIENT: **Minespec Parts Pty. Ltd.**

CLIENT CONTACT: Ms. J. Seymour

ORDER NO.: PO921

COMPONENT IDENTIFICATION: **Caterpillar 6060 Excavator Superstructure**

SUBJECT: Inspection and non-destructive testing of
Caterpillar 6060 excavator superstructure at
Minespec Parts, Nebo.

DATE OF TEST: 7th January, 2020

INSPECTOR: Mr. M. J. Shields

TEST DATA:

Test Equipment - Electro-Spect 240V AC Bridge Magnet
8901W White Background/800/3 Black Magnetic Ink
Test Method - A.S.3978 MTP-101
A.S.1171 MTP-102
Demagnetised - No
Material Type - Carbon steel
Acceptance/Rejection Criteria - Report all cracks and discontinuities detected
Surface Condition - Bare metal and painted
Limitations of Test - Client nominated components only
Presence of paint on surface may mask defects/discontinuities.



Accredited for compliance with ISO/IEC 17025 - testing & ISO/IEC 17020
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RESULTS OF EXAMINATION

VT - Visual Testing

MT - Magnetic Particle Testing

CATERPILLAR 6060 EXCAVATOR SUPERSTRUCTURE

Refer to Photograph Nos. 1 - 3 for component tested.

(VT) - Corrosion and mechanical damage detected, refer to Photograph Nos. 4 - 11.

(VT/MT) - Cracks detected, refer to defect table and Photographs Nos. 12 - 24.

Defect No.	Photo No.	Defect	Location
1	12	Crack 80mm	Base of column right front
2	13	Crack 46mm	Base of column right front
3	14	Crack 50mm	Base of column right front
4	15	Crack 30mm	Base of column rear left inboard
5	16	Crack 40mm	Rear cross member left inboard
6	17	Crack 14mm	Rear cross member right inboard
7	18	Cracks 200mm, 186mm, 152mm, 101mm, 93mm & 72mm	Thin metal panel rear
8	19	Cracks 402mm, 170mm, 135mm, & 80mm	Thin metal panel front
9	20	Crack	Roof support left side
10	21	Crack	Roof support left side
11	22	Crack	Roof support right side
12	23	Crack	Roof support right side
13	24	Crack	Roof support right side


M. J. SHIELDS

Inspector

Att.

PHOTOGRAPH NO. 1 - Caterpillar 6060 excavator superstructure.



PHOTOGRAPH NO. 2 - Caterpillar 6060 excavator superstructure.



PHOTOGRAPH NO. 3 - Caterpillar 6060 excavator superstructure.



PHOTOGRAPH NO. 4 - Caterpillar 6060 excavator superstructure - corrosion detected on right hand side rail.



PHOTOGRAPH NO. 5 - Caterpillar 6060 excavator superstructure - corrosion detected on right hand side rail.



PHOTOGRAPH NO. 6 - Caterpillar 6060 excavator superstructure - corrosion detected on right hand side rail.



PHOTOGRAPH NO. 7 - Caterpillar 6060 excavator superstructure - corrosion detected on left hand side rail.



PHOTOGRAPH NO. 8 - Caterpillar 6060 excavator superstructure - corrosion detected on left hand side rail.



PHOTOGRAPH NO. 9 - Caterpillar 6060 excavator superstructure - corrosion detected on left hand side rail.



PHOTOGRAPH NO. 10 - Caterpillar 6060 excavator superstructure - mechanical damage detected on left hand side panel



PHOTOGRAPH NO. 11 - Caterpillar 6060 excavator superstructure - corrosion detected on top cross beam.



PHOTOGRAPH NO. 12 - Caterpillar 6060 excavator superstructure - 80mm crack detected.



PHOTOGRAPH NO. 13 - Caterpillar 6060 excavator superstructure - 46mm crack detected.



PHOTOGRAPH NO. 14 - Caterpillar 6060 excavator superstructure - 50mm crack detected.



PHOTOGRAPH NO. 15 - Caterpillar 6060 excavator superstructure - 30mm crack detected.



PHOTOGRAPH NO. 16 - Caterpillar 6060 excavator superstructure - 40mm crack detected.



PHOTOGRAPH NO. 17 - Caterpillar 6060 excavator superstructure - 14mm crack detected.



PHOTOGRAPH NO. 18 - Caterpillar 6060 excavator superstructure
200mm, 186mm, 152mm, 101mm, 93mm & 72mm
cracks detected.



PHOTOGRAPH NO. 19 - Caterpillar 6060 excavator superstructure
402mm, 170mm, 135mm & 80mm cracks detected.



PHOTOGRAPH NO. 20 - Caterpillar 6060 excavator superstructure - crack
detected on roof support.



PHOTOGRAPH NO. 21 - Caterpillar 6060 excavator superstructure - crack detected on roof support



PHOTOGRAPH NO. 22 - Caterpillar 6060 excavator superstructure - crack detected on roof support.



PHOTOGRAPH NO. 23 - Caterpillar 6060 excavator superstructure - crack detected on roof support.



PHOTOGRAPH NO. 24 - Caterpillar 6060 excavator superstructure - crack detected on roof support.



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