

Ultrasonic test report



Report number	LW25-1903-01 UT
Customer name	Ikon Lifting Equipment Pty Ltd
Address	Unit 9, 327 Mansfield St Thornbury VIC Australia 3071
Requested by	Ron Thomas
Purchase order	PO-2165
Accredited laboratory	LMATS Melbourne Laboratory
Test date	05/12/2025
Job address	6458 Northern Highway Rochester
Job description	Testing on mobile column lifts - In-service Structural pins
Identification	StertilKONI column lifts (4off) - 8 axle pins
Material grade	Stainless Steel- Grade not specified
Test specification	Client's requirement - Nil detectable cracks permitted
Test method	AS 1065 - 1988 as a guide-UT of in service pins, bolts and shafts
Test procedure	TP-UT-33 (I1,R2)
Surface condition	In-service - machined
Surface preparation	Wiped
Scan area	100% accessible volume of item
Probe positions	Refer to the following page
Test equipment	'A' Scan presentation, L002297
Couplant	Polypaste
System accuracy	Not applicable for flaw detection
Calibration block	L004810 AS 2083 Bl. 1 IIW Bl. 1 ASTM E164 V1 - 1.5mm SDH
Transducers	Refer to the following page
Special equipment	Nil
Transfer correction gain	Not required
Damping & reject settings	None
Scanning sensitivity	1st BWE to 80% FSH +6 dB
Evaluation sensitivity	Indication >15% FSH
Approved tester	Harpreet Singh (Cert III/Dip. in Auto Mechanical Eng.- ISO 9712 L2 UT/ET/MT/PT/VT/PAUT, RT License)
Test results	Refer to Table 1 for test area identification and results



Accreditation No. 15840

Accredited for compliance with
ISO / IEC 17025 - Testing

Signatory

Harpreet Singh
(Cert III/Dip. in Auto Mechanical
Eng.- ISO 9712 L2
UT/ET/MT/PT/VT/PAUT, RT
License)



Report issued on 08/12/2025

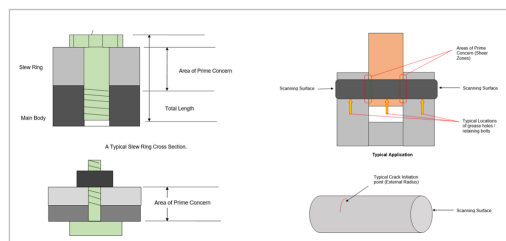
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Probe positions

L-scan	N-scan	T-scan
NA	Scan from end surface	NA

Scanning method

Non Standard Method (Draw Sketch)

Scanning plan

Transducer set: 1

Transducer	Maker S/N	Crystal type	Angle (°)	Size (mm)	Frequency (MHz)	Index (mm)	Beam misalignment (°)	Cable length & type	Ref.gain (dB)	Test range (mm)
L005380	12206170R	Single	0	Ø10	4	Not applicable	0	1m Lemo to mini-lemo	55	0-300

Table 1: Test items identification (provided by the client) and results (All dimensions in mm unless stated otherwise)

Identification	Part / Model No.	S/N or A/N	Quantity	Test area	Discontinuities	Result
Stertil koni	ST-1085 FWA	UN219132	2	100% accessible volume	No cracks detected	C
Stertil koni	ST-1085 FWA	UN226438	2	100% accessible volume	No cracks detected	C
Stertil koni	ST-1085 FWA	UN226416	2	100% accessible volume	No cracks detected	C
Stertil koni	ST-1085 FWA	UN223303	2	100% accessible volume	No cracks detected	C

Test restrictions

In-situ general limitations, parts geometry (no drawings supplied)

Comments

Nil

Normative general notes

1. Test and inspection items may be discarded after 6 weeks, unless alternative arrangements are made with LMATS.
2. Samples, identification of samples and all job specific details were supplied by the client. The test results relate only to the items tested or sampled.
3. Any stated nominal pipe sizes and nominal thickness of the material were provided by the client.
4. Where applicable, the Measurement Uncertainty (MU) applies to the test results as per LMATS procedure. MU can be obtained by contacting one of LMATS ISO 17025 accredited laboratories.
5. Acceptance criteria is applied from the test specification. If the test specification does not include acceptance criteria, then the test or inspection results should be referred to a competent authority for further action.
6. Refer to the attached revision notes if this report has been revised. This report shall not be reproduced except in full without approval of the issuing laboratory to ensure that parts of a report are not taken out of context. The client or their representatives shall not edit this report.
7. LMATS or its professional indemnity insurance provider do not indemnify the contents within this report or the conformity of a tested product unless the invoice for the reported work is paid in full within the agreed credit terms. Reports will be revoked if the invoice for the completed work is not paid in full.
8. According to the guidelines of both local and international standards, Magnetic Particle Testing is not considered the preferred method for detecting surface porosities, as it may potentially miss them. Clients are advised to consider alternative methods like Dye Penetrant Testing, which specifically address surface porosity concerns.

Abbreviations used in this report

A - No discontinuities detected
 CP - Crater Pipe
 F - Failed
 IC - Copper Inclusion
 IO - Oxide Inclusion (wagon tracks)
 KL - Longitudinal crack
 LP - Incomplete root Penetration
 NRRD - No Recordable Reflections Detected
 p.d. - Processing / film Defects
 PU - Uniform Porosity
 SGI - Incompletely filled Groove
 SMH - Hammer Mark
 SSP - Spatter
 SXP - Excessive Penetration

BT - Burn (melt) Through
 DNC - Does Not Comply
 GP - Gas Pore
 IL - Linear Inclusion (slag line)
 IT - Tungsten Inclusion
 KT - Transverse crack
 LR - lack of Root fusion (missed edge)
 NUSID - No unacceptable Surface Indications Detected
 PG - Localized Porosity
 RP - Report findings
 SGS - Shrinkage Groove
 SMT - Tool Mark (chipping mark)
 SUC(e) - Undercut External
 WH - Worm Hole

C - Comply
 EC - Elongated Cavity (hollow bead)
 HiLo - Linear misalignment
 IN - Inclusion
 KC - Crater crack
 LI - lack of Inter-run fusion
 LS - lack of Side fusion
 P - Passed
 PL - Linear Porosity
 SED - Excessive Dressing (underflushing)
 SMG - Grinding Mark
 SRC - Root Concavity (Suck back)
 SUC(i) - Undercut Internal



Image 1 of 12 - General view of the test area

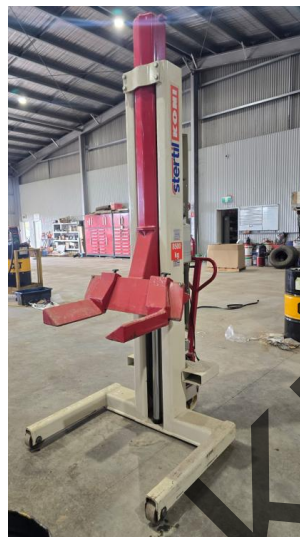


Image 2 of 12 - General view of the test area



Image 3 of 12 - General view of the test area



Image 4 of 12 - General view of the test area



Image 5 of 12 - General view of the test area



Image 6 of 12 - General view of the test area



Image 7 of 12 - General view of the test area



Image 8 of 12 - General view of the test area



Image 9 of 12 - General view of the test area



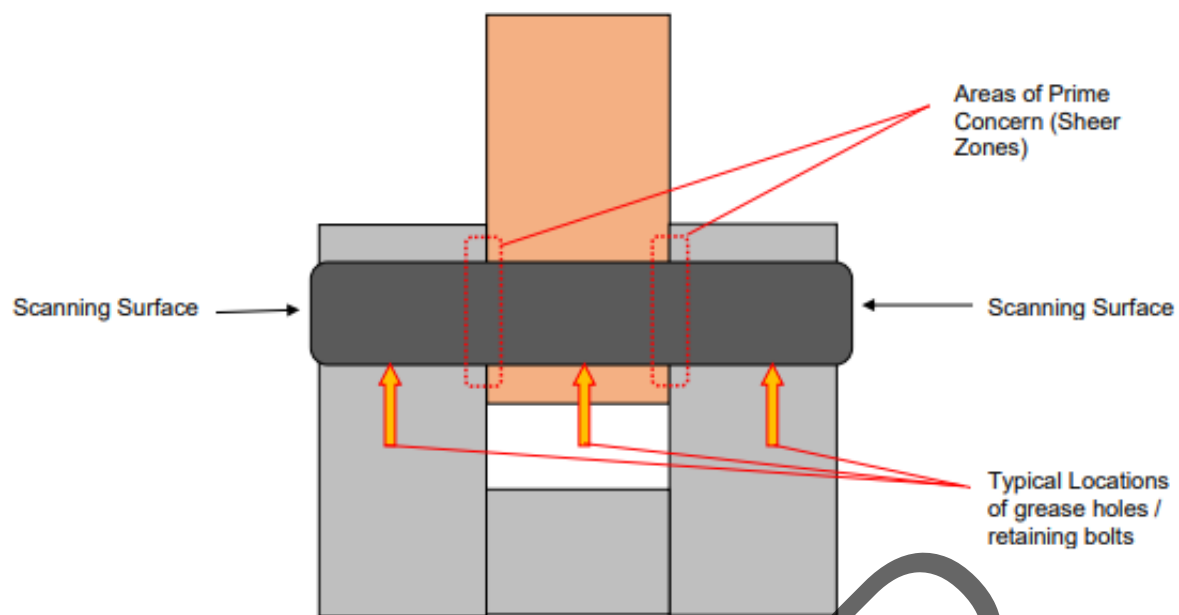
Image 10 of 12 - General view of the test area



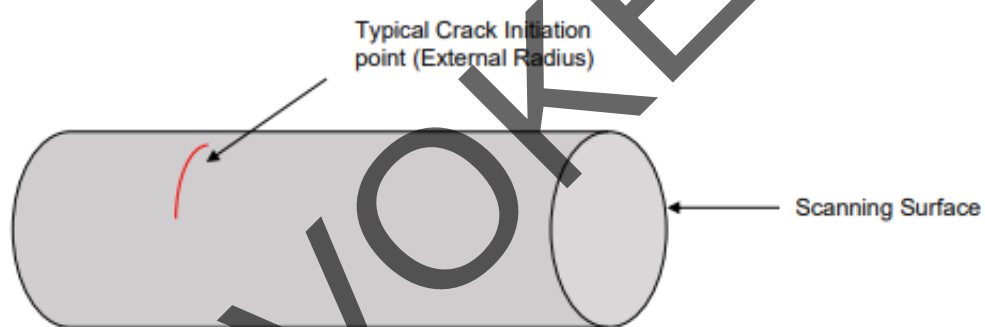
Image 11 of 12 - General view of the test area

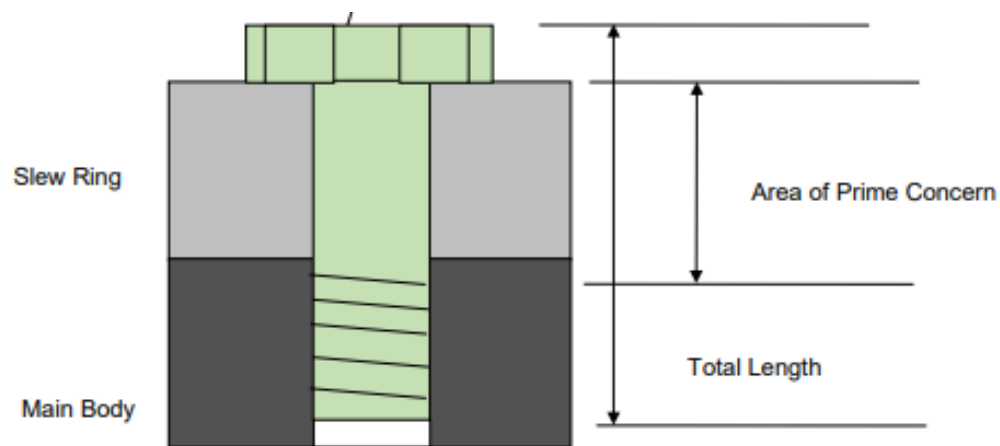


Image 12 of 12 - General view of the test area

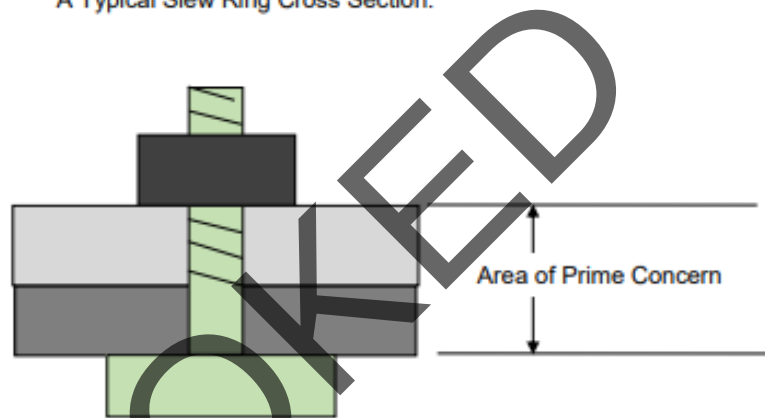


Typical Application





A Typical Slew Ring Cross Section.



Example of Bolted Section