



Accreditation no. 19898

ALL TERRAIN CRANE *Annual Report*

Company	C & C Construction Services	ABN	82 780 055 822
Address	1 Sir Henry Parkes Avenue MEDOWIE	Representative	Mr Peter Ritters
State	NSW	Phone	02 4982 8257
Postcode	2318	Email	pritters@cccs.net.au

Make	Tadano Demag
Model	AC 40/2L
Serial Number	256014
Plant Number	006
Year of Manufacture	2016
Design Registration Number	SDO5036-2
Plant Registration	NOT PRESENTED AT
THE TIME OF INSPECTION	
Road Registration	898 WKW
Max Load	40000kg
Number of Axles	2
Lower Hours	5031
Upper Hours	N/A
Kilometers	19071



Country where assessed	Australia	State	NSW
Operators Manual in English	OK		
Log Book	OK		
Maintenance Records	OK - service reports available		
Crane Safety Manual	No		

Assessed By	Paul Kiem	Company	Paul's Crane Inspections
Reg. No.	NSW1039	Address	P O Box 221 KURRI KURRI
Phone	0438 667 480	State	NSW
Email	paul@paulscraneinspections.com.au	Postcode	2327

Initial Inspection Date	04/06/2020	Issued Date	15/06/2020
		Expiry Date	07/06/2021

Conforms to Checklist Yes

This report is confirmation that the crane has undergone an annual inspection to the appropriate standard and is considered safe for continued operation at time of inspection.

Actions Required

Accredited for compliance with ISO/IEC 17020

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports

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BOOM AND ATTACHMENTS

Base Section	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
No. 1 Section	OK
No. 2 Section	OK
No. 3 Section	OK
No. 4 Section	OK
No. 5 Section	N/A
Additional Sections	N/A
Head Sheaves and bearings	OK
Idler Sheave and Bearing	OK
Rooster Sheave and Bearing	N/A
Extension / Fly Jib Mounts	OK
Shimming and Alignment	OK
Boom Lift Cylinders	OK
Lock Valve(s)	OK
Extension Cylinders	OK
Lock Valve(s)	OK
Extend Ropes / Chains	OK - Internal extension ropes are not all visible; functions and adjustments appeared satisfactory.
Retract Ropes / Chains	OK - Internal retraction ropes are not all visible; functions and adjustments appeared satisfactory.
Boom Length Recoil Drum(s)	OK
Mechanical Boom Angle Indicator	OK
Fixed Jib	N/A
Luffing Jib(s)	N/A
Masts	N/A
Suspension Ropes	N/A
Suspension Straps / Tubes	N/A
Load Cell	N/A
Recoil Drums	N/A
Superlift	N/A
Superlift Winch	N/A
Superlift Winch Brakes	N/A
Boom / Attachments / Electrics	OK
Proximity Switches	OK
Boom Pinning System	N/A
Extension / Fly Jib	N/A
Sheaves and Bearings	OK
Anemometer	N/A
<i>ANTI-TWO BLOCKS</i>	
Boom Head	OK
Rooster Sheave	N/A
Extension / Fly	N/A
<i>HOOK BLOCKS - WITH CRANE</i>	
Description	1 x 15 T Hook-Block fitted for testing - All OEM markings confirmed
Type	
Manufacturers Identification	OK - 2015.026
Branded WLL (kg)	OK 15000kg
Safety Latches	OK
Sheaves and Bearings	OK - 1 Sheave
Swivel	OK
Branded with Tare Weight (kg)	OK 170kg

Additional Comments on Boom and Attachments

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

REVOLVING FRAME AND CABIN

Frame	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Counterweight Attachment - Security	OK
Counterweight Hazard Striping	OK
Boom Mounting Lugs	OK
Boom Mounting Pins	OK
Lift Cylinder Lugs	OK
Lift Cylinder Pins	OK
Cab Glass and Mirrors	OK
Sheet Metal / Guards	OK
Seat Assembly	OK
Throttle	OK
Dead Man Controls	OK
Free Fall Lockout	N/A
Decals / Signs - In English	OK
Load Charts in English as per AS1418	OK
Control Levers - Clearly Marked	OK
Control Cables / Pilot Hoses	OK
Heater	OK
Air Conditioner	OK
Gauges	OK
Anti-Two block Alarms	OK
Horn	OK
Access Steps	OK
Doors and Locks	OK
Crane Level Indicator	OK
Outrigger Controls	OK
Cab Mounts	OK
Front Wiper	OK
Roof Wiper	OK
Windscreen Wiper / Washer	OK
Switches and Relays	OK
Upper Steering	OK
Upper Braking	OK

Additional Comments on Revolving Frame and Cabin

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

SLEW SYSTEM

Slew Transmission & Oil Level	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Leaks	OK
Swing Brake	OK
Lock Valve(s)	OK
House Lock	OK
Slew Pinion	OK
Slew Gear	OK
Slewing Ring	OK
Base Weld	OK
Smooth Operation	OK
Rotary Coupling	OK
Slew Bolts	OK
Excessive Bearing Play	OK
Excessive Backlash	OK
Electrical Swivel	OK

Additional Comments on Slew System

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

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MAIN WINCH

Winch Condition & Oil Level	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Leaks	OK
Rope Spooling	OK
Mounts	OK
Brake Caliper and Disc	N/A
Friction Pads	OK - Internal brake pads are not visible; functioned test satisfactory
Brake Operation	OK - Automatically applies
Drum Turn Indicator	OK
Main Wire Rope	OK
Rope Socket and Pins	OK
Correct Assembly and Connection of Hoist	OK
Rope Socket	
Drum Locking Pawl Mechanism	N/A
Clutch Linings and Cylinder Protection	N/A

Additional Comments on Main Winch

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

AUXILIARY WINCH - NA

[[reportTextBelow]]

HYDRAULIC SYSTEM

Hydraulic Reservoir & Oil Level	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Return Filters and Housing	OK
Suction Lines and Hoses	OK
Oil Cooler(s)	OK
Main Pump(s)	OK
Slew Pump	OK
Steering Pump	OK
Pilot Pump	OK
Relief Valves	OK
Pressure Filter and Housing	OK
Slew Motor	OK
Slew Valve	OK
Main Winch Motor	OK
Auxiliary Winch Motor	N/A
Main Winch Valve	OK
Auxiliary Winch Valve	N/A
Boom Lift Valve	OK
Boom Extension Valve	OK
Pressure Lines and Hoses	OK
Power Steering Cylinders	OK
Vertical Outrigger Cylinders	OK
Horizontal Outrigger Cylinders	OK
Outrigger Control Valves	OK
Outrigger Lock Valves	OK
Counterweight Lift Cylinder	OK

Additional Comments on Hydraulic System

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

AIR SYSTEMS

Compressor	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Air Reservoirs	OK
Drain Valves	OK
Air Lines	OK
Brake Chambers	OK
Brake Valves	OK
Air Cylinders	N/A
Air Dryer	OK

Additional Comments on Air Systems

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

CHASSIS INSPECTION

Frame	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Suspension System	OK
Steering Components	OK
Driving Axles	OK
Non Driving Axles	OK
Differentials	OK
Planetary Drives	OK
Drive Lines	OK
Brake(s)	OK
Parking Brake	OK
Outrigger Boxes	OK
Outrigger Beams	OK
Outrigger Pads	OK
Markings For Alternate Outrigger Widths	OK
Outrigger Hazard Striping	OK
Sheet Metal / Guards	OK
Decals / Signs - In English	OK
Doors and Locks	OK
Outrigger Controls and Labeling	OK
Axle Levelling for Road Travel	OK
Crane Levelling System	OK
Condition of Tyres	OK
Appropriate Earthing	OK
Earth Strap	OK
Fire Extinguisher	OK

Additional Comments on Chassis Inspection

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

ELECTRICAL SYSTEMS

Battery Box	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Battery Cables	OK
Battery Isolator	OK
Starter	OK
Head Lights	OK
Tail Lights	OK
Stop Lights	OK
Directional indicators	OK
Hazard Lights	OK
Clearance Lights	OK
Switches and Relays	OK
Rotating Beacon(s)	OK
Reverse Alarm	OK
Horn for Road Travel	OK

Additional Comments on Electrical Systems

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

DRIVE SYSTEMS

Radiator & Coolant Level	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Radiator Hoses	OK
Fan	OK
Fan Guard	OK
Oil Cooler(s)	OK
Fuel Lines	OK
Throttle	OK
Engine Mounts	OK
Power Transmission Belts	OK
Muffler / Spark Arrestor	OK
Engine Oil Pressure & Oil Level	OK
Abnormal Engine Noises	OK
Fuel Tank & Diesel Level	OK
Power Shift / Range Shift	OK
Drive Coupling	OK
Transmission Noise	OK
Leaks	OK
Pump Drives	OK
Pump Disconnects (PTO)	OK
Output Coupling	OK
Engine Braking	OK
Transmission Retarder	N/A
Telma Brake	N/A
ABS Brakes	OK

Additional Comments on Drive Systems

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

SUPERSTRUCTURE DRIVE SYSTEM - NA

[[reportTextBelow]]

CARRIER CABIN

Cab Glass and Mirrors	OK - All items marked OK have Visual and/or audible attention whilst functioned; Also, should be Re-confirmed at service intervals.
Sheet Metal and Guarding	OK
Seat and Assembly including Seat Belts	OK
Throttle	OK
Foot Brake	OK
Clutch Pedal	N/A
Steering Wheel Free Play	OK
Decals / Signs - In English	OK
Heater	OK
Air Conditioner	OK
Gauges	OK
Indication and Warning Lights	OK
Windscreen Wiper / Washer	OK
Exhaust / Telma Brakes	OK

Additional Comments on Carrier Cabin

All items marked OK either functioned and/or appeared satisfactory for continued use. experienced crane crews should confirm daily visual and audible Pre-start checks. No faults or problems discussed at the time of inspection.

FUNCTIONAL TESTS - MAIN WINCH*Rated Capacity Indicator (RCI)*

Load Chart Reference Number
Printed Chart - No Load

Terex PPM AC40/2L Load chart

OK - RCI (Computer) and the printed charts compared within
acceptable tolerances

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	78.60°	76.00°
Boom Length, m	37.40m	37.30m
Radius, m	8.00m	7.90m
Load, kg	5550kg	5500kg

RCI Load Charts

75%

Rated Capacity Limiter (RCL)

Load Chart Reference Number
Rated Load - Boom Fully Extended

Duty code 100 mode 2 Selected

OK - RCL Safety devices activated at acceptable tolerances

	Rated Capacity Indicator	Measured
Radius, m	25.00m	25.00m
Load, kg	1400kg	1185kg

Rated Load in Stability

OK - Same weights used plus visually compared stability limits in
various other positions

	Rated Capacity Indicator	Measured
Radius, m	25.00m	25.00m
Load, kg	1400kg	1185kg

Line Pull Test

OK

	Rated Capacity Indicator	Measured
Load, kg	4500kg	4400kg

Winch Brake Test

OK - Loads applied for around 12 mins whilst inspecting for cracks;
No visible or recorded winch brake slippage found.

	Rated Capacity Indicator	Measured
Load, kg	4500kg	4400kg

Overload Warning Lights and Alarms

OK

Rated Capacity Limiter Fitted (Overload
Limiter)

OK

Additional Comments on Functional Tests - Main Winch

All items marked OK either functioned and/or appeared satisfactory. No visible or pre-recorded faults were found. RCL and RCI (Computer) Functions confirmed.

FUNCTIONAL TESTS - AUXILIARY WINCH - NA

[[reportTextBelow]]

CRACK INSPECTION

No Cracks Detected

OK

Additional Comments on Crack Inspection

Annual mandatory third-party inspection completed. Visual crack inspection carried out during and after the load testing. No visible or recorded cracks or distortions were found.

Any third party testing is not included in the CraneSafe NATA accreditation.

ADDITIONAL ANNUAL INSPECTIONS STIPULATED BY THE MANUFACTURER

This report is;

OK - Prepared for the date of inspection to confirm what appears fit for continued use; Is not confirming all global standards; Is not a Pre-Purchase report.

SITE REQUIREMENTS

Baan Baa high voltage power pole replacement sites

Induction conducted at Boggabri office

OK - completed without incident

Sign on to site risk management

OK - completed without incident

APPENDICES

CRANE

Model



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Serial Number



Lower Hours



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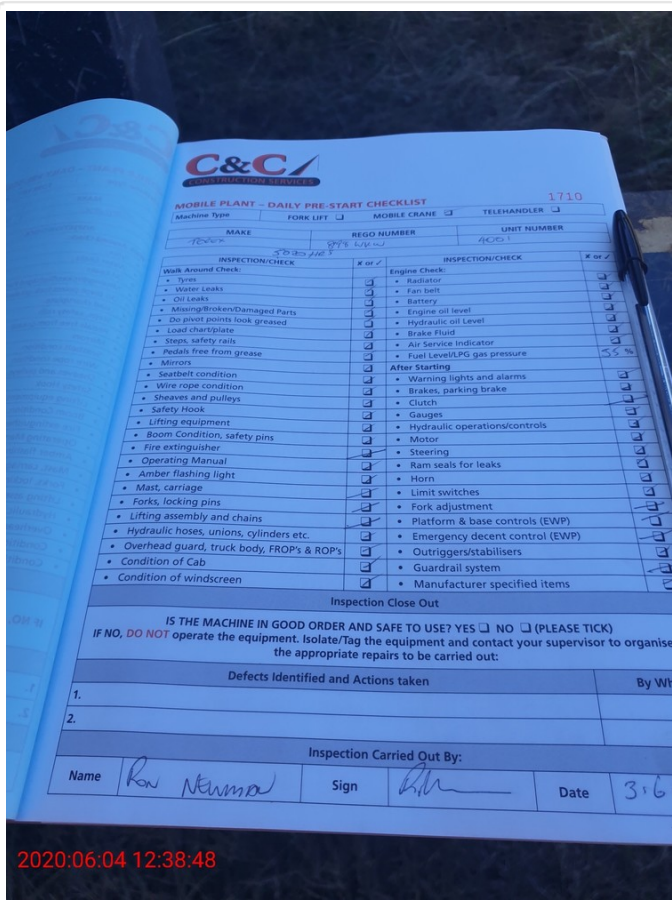
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Kilometers



ASSESSMENT

Log Book



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Log Book

BOOM AND ATTACHMENTS

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Head Sheaves and bearings



Description



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Manufacturers Identification



REVOLVING FRAME AND CABIN



Upper Braking

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SLEW SYSTEM

Slew Pinion



MAIN WINCH

Leaks
No leaks evident around the winch area



Correct Assembly and Connection of Hoist Rope Socket



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HYDRAULIC SYSTEM



Main Winch Valve

AIR SYSTEMS



Brake Valves
Various braking valves no issues evident



Air Dryer

CHASSIS INSPECTION

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Planetary Drives



Outrigger Controls and Labeling



Appropriate Earthing
Supplied and fitted by trained high voltage linesmen



Appropriate Earthing



ELECTRICAL SYSTEMS

Hazard Lights
all lights including hazard lights confirmed



DRIVE SYSTEMS

Engine Oil Pressure & Oil Level



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CARRIER CABIN



Exhaust / Telma Brakes

FUNCTIONAL TESTS - MAIN WINCH



Load Chart Reference Number
Full set of load charts available.
applicable chart for function testing attached.
other duties visually confirmed to the RCI (Computer)

Printed Chart - No Load - Boom Angle RCI



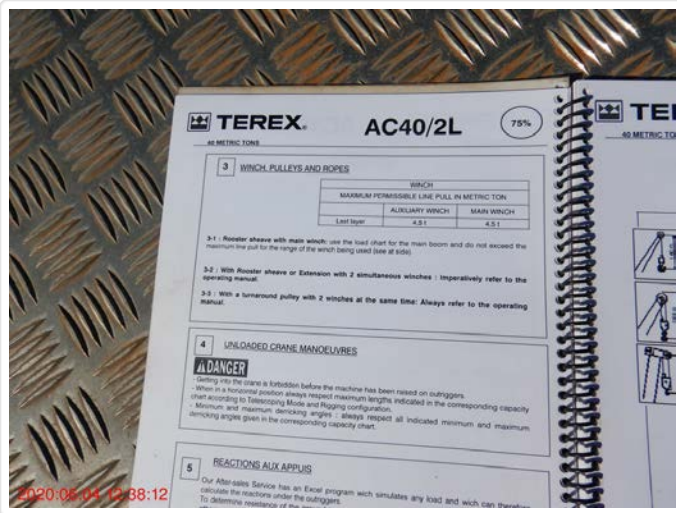
Rated Load - Boom Fully Extended - Load RCI



Rated Load - Boom Fully Extended - Load Measured
 MRC = 1400 Kg confirmed correct to paper charts.
 Available test weight = 1185 Kg + 200 Kg rigging.
 Total load when the RCL safety devices activated = 1385 Kg.
 RCL Safety devices activated before the MRC was achieved



Line Pull Test - Load RCI



Line Pull Test - Load Measured
 No weights available on site equal to or > 2000 Kg
 Accuracy of the RCI supports RCL will activate at 4400 Kg

Winch Brake Test
 Driver confirms the 2 fall of winch rope supports the weight new power poles x 2 when delivered.
 No winch brake slippage has been detected



Certificate No: NSW148773

CraneSafe®

Accreditation no. 19898

**CERTIFICATE OF ANNUAL
INSPECTION AND TESTING**

All Terrain Crane

Inspection Date: 04/06/20

Renewal Date: 07/06/2021

Issued Date: 15/06/2020

Location of Inspection: Baan Baa NSW

Crane Owner: C & C Construction Services

Address: 1 Sir Henry Parkes Avenue MEDOWIE, 2318, NSW, Australia

Crane Make: Tadano Demag

Crane Model: AC 40/2L

Crane Serial Number: 256014

YOM: 2016

Hours: 5031



Inspection in accordance with: AS2550.1 & AS2550.5 EN (FEM&ISO) JIS

Codes of Practice Manufacturer's Instructions.

Inspection Comments: General presentation satisfactory. All items marked OK either functioned and/or appeared satisfactory and fit for continued use. visible Issues or Faults are noted; - No Pre-recorded faults were Logged.

This certificate is confirmation that the crane has undergone an annual inspection to the appropriate standard and is considered safe for continued operation at time of inspection.

Signed: _____

Printed Name: Paul Kiem

CraneSafe Assessor No.: NSW1039

CraneSafe Assessment No: ATC A 148773-10

Accredited for compliance with ISO/IEC 17020

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Certificate No: NSW148773

CraneSafe®

Accreditation no. 19898

LOAD INDICATOR CERTIFICATION
All Terrain Crane

Annual Inspection Date: 15/06/2020

Crane Owner: C & C Construction Services

Address: 1 Sir Henry Parkes Avenue MEDOWIE, 2318, NSW, Australia

Crane Make: Tadano Demag

Crane Model: AC 40/2L

Crane Serial Number: 256014

YOM: 2016 **Hours:** 5031

Rated Capacity Indicator (RCI)

Load Chart Reference Number

Terex PPM AC40/2L Load chart

Printed Chart - No Load

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	78.60	76.00
Boom Length, m	37.40	37.30
Radius, m	8.00	7.90
Load, kg	5,550.00	5,500.00

Rated Capacity Limiter (RCL)

Load Chart Reference Number

Duty code 100 mode 2 Selected

Rated Load - Boom Fully Extended

Rated Load in Stability

	Rated Capacity Indicator	Measured
Radius, m	25.00	25.00
Load, kg	1,400.00	1,185.00

	Rated Capacity Indicator	Measured
Radius, m	25.00	25.00
Load, kg	1,400.00	1,185.00

Line Pull Test

	Rated Capacity Indicator	Measured
Load, kg	4,500.00	4,400.00

Winch Brake Test

	Rated Capacity Indicator	Measured
Load, kg	4,500.00	4,400.00

At the time of test, the load indicator was reading in accordance with the requirements of AS1418.1 & AS1418.5 and the load charts supplied with the crane

Signed: _____

Printed Name: Paul Kiem

CraneSafe Assessor No.: NSW1039

CraneSafe Assessment No: ATC A 148773-10

Issued Date: 15/06/2020

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SUPPORTING INFORMATION