

ALL TERRAIN CRANE *Annual Report*

Company	C & C Construction Services	ABN	82 780 055 822
Address	1 Sir Henry Parkes Avenue	Representative	Mr Peter Riters
MEDOWIE			
State	NSW	Phone	0419762507
Postcode	2318	Email	priters@cccs.net.au

Make	Terex PPM
Model	AC40/2L
Serial Number	256014
Plant Number	006
Year of Manufacture	2016
Design Registration Number	SDO5036-2
Plant Registration	TBA
Road Registration	898 WKW
Max Load	40,000 Reeving to
32,000	
Number of Axles	2
Lower Hours	1311
Upper Hours	1311
Kilometers	2051



Country where assessed	Australia	State	NSW
Operators Manual in English	Yes	Log Book	Yes
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	02/06/2017	Issued Date	05/06/2017
		Expiry Date	03/06/2018

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

In 2018 - Service and Maintenance reports with Pre-Start logged histories.

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BOOM AND ATTACHMENTS

Base Section	OK
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 ropes are not all visible; Functions and adjustments appeared satisfactory
Retract Ropes / Chains	OK - Internal 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	OK - Visual inspection attached to base boom
Sheaves and Bearings	OK
Anemometer	N/A
Boom Head	OK
Rooster Sheave	N/A
Extension / Fly	OK

HOOK BLOCKS - WITH CRANE

Description	1 x 15 T Hook-Block fitted for testing - All OEM markings confirmed
Manufacturers Identification	OK - 2015.026
Safety Latches	OK
Sheaves and Bearings	OK - 1 Sheave
Swivel	OK
Branded WLL	OK - 15T
Branded with Weight (Tare)	OK - 170 Kg

Additional Comments on Boom and Attachments

All items marked OK either functioned and or appeared satisfactory. No visible or recorded faults by drivers.

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REVOLVING FRAME AND CABIN

Frame	OK - visual and audible attention whilst loaded and functioned.
Counterweight Attachment - Security	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 - Not a fitted option
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. No visible or recorded faults by drivers.

SLEW SYSTEM

Slew Transmission & Oil Level	OK - Visual and audible attention whilst loaded and functioned.
Leaks	OK
Swing Brake	OK
Lock Valve(s)	OK
House Lock	N/A
Slew Pinion	OK
Slew Gear	OK
Slewing Ring	OK
Base Weld	OK
Smooth Operation	OK
Rotary Coupling	OK
Slew Bolts	OK - visual whilst loaded with bright light
Excessive Bearing Play	OK - Nil found
Excessive Backlash	OK
Electrical Swivel	OK

Additional Comments on Slew System

All items marked OK either functioned and or appeared satisfactory. No visible or recorded faults by drivers.

MAIN WINCH

Winch Condition & Oil Level	OK - 100% audible and functioned tested. see service reports for more details.
Leaks	OK
Rope Spooling	OK
Mounts	OK
Brake Caliper and Disc	N/A
Friction Pads	OK - Internal not visible. load tested OK
Brake Operation	OK - Automatically applies
Drum Turn Indicator	OK
Main Wire Rope	OK - > original 16 mm visual and measured to OEM specs
Rope Socket and Pins	OK - Socket and wedge type
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. No visible or recorded faults by drivers.

AUXILIARY WINCH - NA

HYDRAULIC SYSTEM

Hydraulic Reservoir & Oil Level	OK - Visual height check after testing OK; See service reports for more details
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. No visible or recorded faults by drivers.

AIR SYSTEMS

Compressor	OK - Air pressure recovery times satisfactory.
Air Reservoirs	OK
Drain Valves	OK - auto drainers
Air Lines	OK
Brake Chambers	OK
Brake Valves	OK
Air Cylinders	OK
Air Dryer	OK

Additional Comments on Air Systems

All items marked OK either functioned and or appeared satisfactory. No visible or recorded faults by drivers.

CHASSIS INSPECTION

Frame	OK - Visual whilst raised on outriggers
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
Markings For Alternate Outrigger Widths	OK
Outrigger Pads	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	N/A - Alternative earthing point fitted
Earth Strap	N/A
Fire Extinguisher	OK

Additional Comments on Chassis Inspection

All items marked OK either functioned and or appeared satisfactory. No visible or recorded faults by drivers.

ELECTRICAL SYSTEMS

Battery Box	OK - Clean secure and tidy
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. No visible or recorded faults by drivers.

DRIVE SYSTEMS

Radiator & Coolant Level	OK - Visual check before start up. See service reports for more details.
Radiator Hoses	OK
Fan	OK
Fan Guard	OK
Oil Cooler(s)	OK
Fuel Lines	OK
Throttle	OK - Electronic
Engine Mounts	OK
Power Transmission Belts	N/A
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	OK
Telma Brake	N/A
ABS Brakes	OK

Additional Comments on Drive Systems

All items marked OK either functioned and or appeared satisfactory. No visible or recorded faults by drivers.

CARRIER CABIN

Cab Glass and Mirrors	OK
Sheet Metal and Guarding	OK
Seat and Assembly including Seat Belts	OK
Throttle	OK - Electronic
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. No visible or recorded faults by drivers.

FUNCTIONAL TESTS - MAIN WINCH

Load Chart Reference Number
Printed Chart - No Load

OEM AC40/2L > S/N 251481
OK - Printed charts and RCI compared within acceptable tolerances. Boom angle measured separate.

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	75.50	72.00
Boom Length, m	37.40	37.30
Radius, m	10.00	10.10
Load, kg	5,000.00	5,000.00

RCI Load Charts

75%

Load Chart Reference Number
Rated Load - Boom Fully Extended

AC40/2L 3.8T C/W - Mode 1 - Duty code 200
OK - RCL actuated 105% showing 50 Kg < then actual

	Rated Capacity Indicator	Measured
Radius, m	26.00	26.20
Load, kg	1,400.00	1,395.00

Rated Load in Stability

OK - Stability charts also compared visually in various other positions

	Rated Capacity Indicator	Measured
Radius, m	26.00	26.20
Load, kg	1,400.00	1,395.00

Line Pull Test

OK - Line pull alarms and RCL activated correctly

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

Winch Brake Test

OK - Load applied for 12 mins with no visible or previously recorded winch brake slippage found.

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

Overload Warning Lights and Alarms

OK

Additional Comments on Functional Tests - Main Winch

All items marked OK either functioned and or appeared satisfactory. No visible or recorded faults by drivers. RCI and RCL (Computer) accuracy confirmed.

FUNCTIONAL TESTS - AUXILIARY WINCH - NA

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CRACK INSPECTION

No Cracks Detected

OK

Additional Comments on Crack Inspection

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

ADDITIONAL ANNUAL INSPECTIONS STIPULATED BY THE MANUFACTURER

Service records

OK - Available Via the service department

Pre-Start log book entries.

OK - Located in the crane cabin; No faults logged or outstanding.

This report is;

OK - Prepared for the date of inspection; Not confirming all global standards; Not a Pre-Purchase report.

APPENDICES

CRANE



Lower Hours



Model
As presented Williamtown RAAF Base 2-6-17



Serial Number

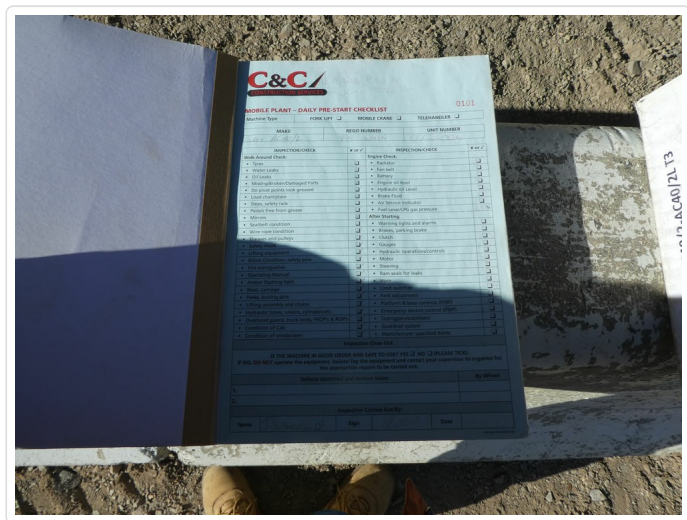
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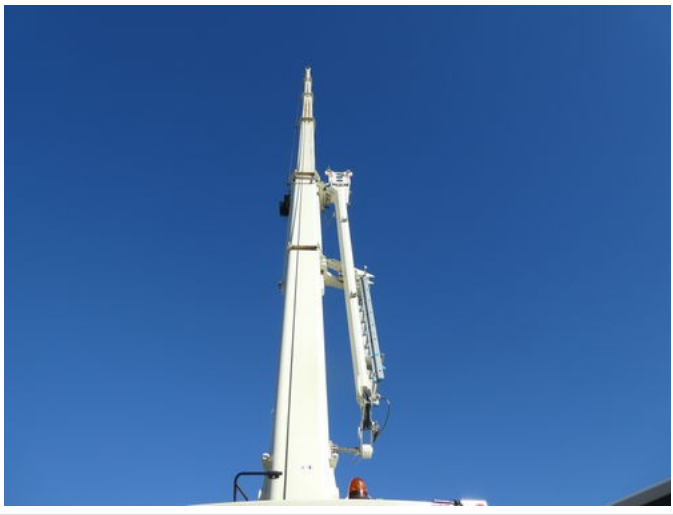
ASSESSMENT



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BOOM AND ATTACHMENTS

No. 4 Section
4 x 100% boom extended.



Mechanical Boom Angle Indicator
Boom angle indicator.



Manufacturers Identification
Hook Block marking confirmed No other Hook-blocks
supplied or required for this inspection.



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REVOLVING FRAME AND CABIN

Counterweight Attachment - Security



Load Charts in English as per AS1418



Upper Steering
Upper steering capable.



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HYDRAULIC SYSTEM



Counterweight Lift Cylinder
Counterweight lift and frames complete

CHASSIS INSPECTION



Outrigger Controls and Labeling
outrigger controls and station levelling confirmed.

ELECTRICAL SYSTEMS



Battery Box
Battery box clean and secure

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FUNCTIONAL TESTS - MAIN WINCH

Load Chart Reference Number
Full set of load charts available. applicable chart attached.

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Rated Load - Boom Fully Extended - Load Measured
MRC = 1450 Kg test load = 1395 Kg + rigging. Total actual load = 1450 Kg



Rated Load - Boom Fully Extended - Load RCI

