



Accreditation no. 19898

ARTICULATED MOBILE CRANE *Annual Report*

Company C & C Construction Services
Address 1 Sir Henry Parkes Avenue
MEDOWIE
State NSW
Postcode 2318

ABN 82 780 055 822
Representative Mr Peter Ritters
Phone 0419 762 507
Email pritters@cccs.net.au

Make Franna
Model AT 20
Serial Number 4531
Plant Number FCS059
Year of Manufacture 2011
Design Registration Number Q19500
Plant Registration TBA
Road Registration 215 VAW
Max Load 20000
Number of Axles 2
Lower Hours 6100
Kilometers 14990



Country where assessed Australia
Operators Manual in English Yes
Crane Safety Manual No

State NSW
Log Book Yes

Assessed By Troy Kiem
Reg. No. NSW1082
Phone 0425 384 091
Email a1craneinspections@gmail.com

Company A1 Crane Inspections
Address P O Box 414 KURRI KURRI
State NSW
Postcode 2327

Initial Inspection Date 03/08/2017
Re-Inspection Date 06/09/2017

Issued Date 07/09/2017
Expiry Date 06/09/2018

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 - NA

Accredited for compliance with ISO/IEC 17020

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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	N/A
Length Markings	N/A
Rope Compensation System	OK
Hook Lift Lugs and Tonnage Decals	OK
Head Sheaves and bearings	OK
Idler Sheave and Bearing	OK
Rooster Sheave and Bearing	N/A
Extension / Fly Jib Mounts	N/A
Machinery Hook	OK
Boom Lift Cylinders	OK
Lock Valve(s)	OK
Extension Cylinders	OK
Lock Valve(s)	OK
Extend Ropes / Chains	OK
Retract Ropes / Chains	OK
Boom Length Recoil Drum(s)	OK
Boom Angle Indicator	OK
Extension / Fly Jib	N/A
Extension Sheaves and Bearings	N/A

Boom Head	N/A
Rooster Sheave	N/A
Extension / Fly	N/A

HOOK BLOCKS - WITH CRANE

Description	1 x Block supplied.
Manufacturers Identification	OK - BBT05605
Safety Latches	N/A
Sheaves and Bearings	OK - 2
Swivel	N/A
Branded WLL	OK - 16800KGS
Branded with Weight (Tare)	OK - 180KGS

HOOK BLOCKS - WITH CRANE No. 2

Description	1 x Hook supplied.
Manufacturers Identification	OK - BBT11641
Safety Latches	OK
Sheaves and Bearings	N/A
Swivel	OK
Branded WLL	OK - 20T
Branded with Weight (Tare)	N/A

Additional Comments on Boom and Attachments

All items marked OK either functioned and/or appeared Satisfactory. No previously recorded faults.

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FRAME AND CABIN

Frame	OK
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 and Assembly including Seat Belts	OK
Decals / Signs - In English	OK
Load Charts in English as per AS1418	REMEDIED
Side Slope Deration Chart	REMEDIED
Control Levers - Clearly Marked	OK
Control Cables / Pilot Hoses	OK
Heater	OK
Air Conditioner	OK
Gauges	OK
Anti-Two block Alarms	N/A
Horn	OK
Access Steps	OK
Doors and Locks	OK
Crane Level Indicator	OK
Front Wiper	OK
Roof Wiper	N/A
Windscreen Wiper / Washer	OK
Switches and Relays	OK
Rotating Beacon(s)	OK

Additional Comments on Frame and Cabin

All items marked OK either functioned and/or appeared Satisfactory. No previously recorded faults.

DRIVE SYSTEMS

Radiator & Coolant level	OK
Water Temperature Gauge	OK
Radiator Hoses / Heater Hoses	OK
Fan / Fan Shaft Assembly	OK
Fan Guard	OK
Oil Filter & Oil Level	OK
Water Pump and Conditioner	OK
Oil Cooler(s)	OK
Fuel Lines	OK
Throttle	OK
Engine Mounts	OK
Power Transmission Belts	N/A
Exhaust Brake	OK
Muffler / Spark Arrestor	OK
Abnormal Engine Noises	OK
Fuel Tank & Diesel Level	OK
Drive Coupling	OK
Transmission Noise / Leaks	OK
Filter and Housing	OK
Pump Drives (PTO)	OK

Additional Comments on Drive Systems

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CHASSIS INSPECTION

Frames	OK
Suspension System	OK
Axle Lock Outs (if fitted)	N/A
Steering Components - Lugs / Pins etc	OK
Front Axle(s)	OK
Rear Axle(s)	OK
Differentials / Planetary Drives	OK
Transfer Case	OK
Drive Lines	OK
ABS Brakes	N/A
Front Brake(s)	OK
Rear Brake(s)	OK
Holding / Parking Brake	OK
Emergency Brake Release	OK
Front Wheels and Tyres	OK - Pick and carry certificates are required
Rear Wheels and Tyres	OK
Spare Wheel	OK
Engine Cowls	OK
Tackle Boxes	OK
Slewing Ring / Articulation Joints	OK - No movement detected.
Fire Extinguisher	OK

Additional Comments on Chassis Inspection

All items marked OK either functioned and/or appeared Satisfactory. No previously recorded faults. Faults identified and listed

HYDRAULIC SYSTEM

Hydraulic Reservoir & Oil Level	OK
Return Filters and Housing	OK
Suction Lines and Hoses	OK
Oil Cooler(s)	OK
Main Pump(s)	OK - Rubbing engine cowl.
Steering Pump	OK
Emergency Steering Pump	OK
Steering Cylinder	OK
Relief Valves	OK
Flow Control Valves	OK
Pressure Filter and Housing	OK

Additional Comments on Hydraulic System

All items marked OK either functioned and/or appeared Satisfactory. No previously recorded faults. Faults identified and listed

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AIR SYSTEMS

Compressor	OK
Air Reservoirs	OK
Drain Valves	OK
Air Lines	OK
Brake Chambers	OK
Brake Valves	OK
Air Cylinders	OK
Gauges	OK
Air Dryer	OK

Additional Comments on Air Systems

All items marked OK either functioned and/or appeared Satisfactory. No previously recorded faults.

ELECTRICAL SYSTEMS

Battery Box	REMEDIED - Batteries too large for box. Risk of fire/explosion.
Battery Cables	OK
Battery Isolator	OK
Head Lights	REMEDIED - Broken Lense
Tail Lights	OK
Stop Lights	OK
Directional Indicators	OK
Hazard Lights	OK
Clearance Lights	OK
Back-up Alarm	OK
Switches and Relays	OK
Work Lights	OK
Horn for Road Travel	OK

Additional Comments on Electrical Systems

All items marked OK either functioned and/or appeared Satisfactory. No previously recorded faults. Faults identified and listed

FUNCTIONAL TESTS - MAIN WINCH

Load Chart Reference Number C.M.N
Printed Chart - No Load OK

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	43.00	42.60
Boom Length, m	13.85	13.80
Radius, m	8.00	8.00
Load, kg	3,600.00	3,600.00

Load Chart Reference Number C.M.N
Rated Load - Boom Fully Extended OK

	Rated Capacity Indicator	Measured
Radius, m	5.80	5.70
Load, kg	4,800.00	4,340.00

Rated Load in Stability OK

	Rated Capacity Indicator	Measured
Radius, m	5.80	5.70
Load, kg	4,800.00	4,340.00

Line Pull Test OK

	Rated Capacity Indicator	Measured
Load, kg	4,200.00	4,200.00

Winch Brake Test OK

	Rated Capacity Indicator	Measured
Load, kg	4,200.00	4,200.00

Winch Condition & Oil Level OK - Oil level internal, service records should confirm.
Winch Rope Condition / Anchors OK - 14mm 35 x 7 NRC 100m
Overload Warning Lights and Alarms OK

Additional Comments on Functional Tests - Main Winch

RCL and the RCI accuracy confirmed within acceptable tolerances. available test weights didn't exceed the lowest MRC. Accuracy of the RCL and load chart confirmed.

FUNCTIONAL TESTS - AUXILIARY WINCH - NA**CRACK INSPECTION**

No Cracks Detected OK - No NDT report available.

Additional Comments on Crack Inspection

Annual independent third party VISUAL inspection completed. Crack inspection carried out during and after the load testing. No visible or previously recorded cracks found.

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ADDITIONAL ANNUAL INSPECTIONS STIPULATED BY THE MANUFACTURER

Note

OK - Service History (Available). Log book-Pre/Start entries available (Located in the crane cabin: previously logged faults). This report is: Prepared for the date of inspection: Not confirming all global standards: Not a pre-purchase report. No responsibility

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APPENDICES

CRANE

Model



Serial Number



Lower Hours



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ASSESSMENT



Log Book

FRAME AND CABIN

Load Charts in English as per AS1418
Load chart in pieces. No quick reference charts found.

Side Slope Deration Chart
Apart of the quick reference chart

ELECTRICAL SYSTEMS



Battery Box

Battery Box



Head Lights



FUNCTIONAL TESTS - MAIN WINCH

Load Chart Reference Number
No load chart

Rated Load - Boom Fully Extended - Load RCI



Rated Load - Boom Fully Extended - Load Measured





Farrelly Construction Services

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FCS SERVICE REPORT

Service No. 0378

CUSTOMER: FCS

MACHINE MAKE: TEREX

ADDRESS:

MODEL: AT-20

CONTACT PHONE:

SERIAL NUMBER: AT20 4531 FCS059

HOUR METER: 6013

Table A: General Maintenance - Visual Inspection. Columns: 1, 2, 3, Comments. Rows: Oil Leaks, ROPS Protection, Main Frame, Boom Arms, Bob Tach, Tyre/Track Condition, Axles (Leaks).

Table B: Operational Checks. Columns: 1, 2, 3, Comments. Rows: Throttle, Pedal Linkage, Steering Creep, Exhaust Smoke, Check Preheaters, Indicator Lights, Hydro Filter, Engine Oil Pressure, Engine Temperature, Alternator Charge, Hourmeter, Check Ignition Switch, Fuel Gauge, Lights.

Table C: General Maintenance. Columns: 1, 2, 3, Comments. Rows: Check Engine Oil Level, Check Engine Oil Leaks, Alternator, Check Alternator Belt, Check Angle Drive Belt, Check Pump Drive Belt, Inspect Engine Mounts, Starter Mount Bolts, Empty Water Trap, Battery, Inspect Bob Tach Lever Operation, Check Chaincase Oil Level, Check Hydraulic Fluid Level.

Table D: Last Filter Change Date. Columns: 1, 2, 3, Comments. Rows: Engine, Fuel, Hydrostatic, Air Primary, Air Secondary.

Table E: Cooling System. Columns: 1, 2, 3, Comments. Rows: Check Coolant Level, Fan Blade Condition, Hose Connections, Water Pump (leaks).

Table F: Roll Up Cab. Columns: 1, 2, 3, Comments. Rows: Check Pump Mount, Check Steer Bolts, Check for Leaks.

Table G: Cylinder Check. Columns: 1, 2, 3, Comments. Rows: Check Lift/Tilt Cylinders, Check Bucket Cylinder, Check Hoses For Wear.

Table H: Safety Check. Columns: 1, 2, 3, Comments. Rows: Seat Bar Operation, Lift & Tilt Pedal Locks, Parking Brake, Lift Override Valve, Seat Belts, ROPS Fasteners, Decals.

Comments: 20000H SERVICE

INSPECTED BY: [Signature] DATE: 28-6-17

CUSTOMER SIGNATURE: DATE: