



Accreditation no. 19898

## ARTICULATED MOBILE CRANE *Annual Report*

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

<b>Make</b>	Franna
<b>Model</b>	AT 20
<b>Serial Number</b>	4741
<b>Plant Number</b>	051
<b>Year of Manufacture</b>	2012
<b>Design Registration Number</b>	Q19500
<b>Plant Registration</b>	MC6-201903/16/0
<b>Road Registration</b>	698 WMG
<b>Max Load</b>	20000kg
<b>Number of Axles</b>	2
<b>Lower Hours</b>	8240
<b>Kilometers</b>	29601



<b>Country where assessed</b>	Australia	<b>State</b>	NSW
<b>Operators Manual in English</b>	OK		
<b>Log Book</b>	OK		
<b>Maintenance Records</b>	OK		
<b>Crane Safety Manual</b>	No		

<b>Assessed By</b>	Troy Kiem	<b>Company</b>	A1 Crane Inspections
<b>Reg. No.</b>	NSW1082	<b>Address</b>	P O Box 414 KURRI KURRI
<b>Phone</b>	0425 384 091	<b>State</b>	NSW
<b>Email</b>	a1craneinspections@gmail.com	<b>Postcode</b>	2327

<b>Initial Inspection Date</b>	06/08/2020	<b>Issued Date</b>	07/08/2020
		<b>Expiry Date</b>	06/08/2021

### 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 - NA

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
No. 1 Section	OK
No. 2 Section	OK - Small indentation detected, with-in OEM limits.
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
<i>ANTI-TWO BLOCKS</i>	
Boom Head	N/A
Rooster Sheave	N/A
Extension / Fly	N/A
<i>HOOK BLOCKS - WITH CRANE</i>	
Description	Block
Type	
Manufacturers Identification	OK - BBT11315
Branded WLL (kg)	OK 16800kg
Safety Latches	
Sheaves and Bearings	OK - 2
Swivel	
Branded with Tare Weight (kg)	OK 180kg
<i>HOOK BLOCKS - WITH CRANE No. 2</i>	
Description	Hook
Type	
Manufacturers Identification	OK - BBT07565
Branded WLL (kg)	OK 20000kg
Safety Latches	OK
Sheaves and Bearings	
Swivel	OK
Branded with Tare Weight (kg)	N/A kg

**FRAME AND CABIN**

Frame	OK
Counterweight Attachment - Security	OK
Counterweight Hazard Striping	OK - Faded, new hazard stripes required before next assessment.
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	OK
Side Slope Deration Chart	OK
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

**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

**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
Rear Wheels and Tyres	OK
Spare Wheel	N/A
Engine Cowls	OK
Articulation Joint	OK - Measured 0.9mm, limit is 0.5mm. Adjustment required.
Tackle Boxes	OK
Fire Extinguisher	OK

**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
Steering Pump	OK
Emergency Steering Pump	OK
Steering Cylinder	OK
Relief Valves	OK
Flow Control Valves	OK
Pressure Filter and Housing	OK

**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

**ELECTRICAL SYSTEMS**

Battery Box	OK
Battery Cables	OK
Battery Isolator	OK
Head Lights	OK
Tail Lights	OK
Stop Lights	OK
Directional Indicators	OK
Hazard Lights	OK
Work Lights	OK
Clearance Lights	OK
Switches and Relays	OK
Back-up Alarm	OK
Horn for Road Travel	OK

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**MAIN WINCH**

Winch Condition & Oil Level	OK - No sight glass available.
Leaks	OK
Rope Spooling	OK
Mounts	OK
Brake Operation	OK
Drum Turn Indicator	N/A
Wire Rope	OK
Rope Anchor and Pin	OK
Correct Assembly and Connection of Hoist	OK
Rope Anchor	

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

Load Chart Reference Number	CMN
Printed Chart - No Load	OK

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	43.00°	43.30°
Boom Length, m	13.85m	13.80m
Radius, m	8.00m	8.00m
Load, kg	3600kg	3600kg

*Rated Capacity Limiter (RCL)*

Load Chart Reference Number	CMN
Rated Load - Boom Fully Extended	OK

	Rated Capacity Indicator	Measured
Radius, m	6.80m	6.80m
Load, kg	4200kg	3820kg

## Rated Load in Stability OK

	Rated Capacity Indicator	Measured
Radius, m	6.80m	6.80m
Load, kg	4200kg	3820kg

## Line Pull Test OK

	Rated Capacity Indicator	Measured
Load, kg	4200kg	3820kg

## Winch Brake Test OK

	Rated Capacity Indicator	Measured
Load, kg	4200kg	3820kg

Overload Warning Lights and Alarms	OK
Rated Capacity Limiter Fitted (Overload Limiter)	OK

**CRACK INSPECTION**

No Cracks Detected

OK

*Any third party testing is not included in the Crane**Safe** NATA accreditation.*

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**ADDITIONAL ANNUAL INSPECTIONS STIPULATED BY THE MANUFACTURER - NA**

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**SITE REQUIREMENTS - NA**

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# APPENDICES

## CRANE

Model



Serial Number



Lower Hours



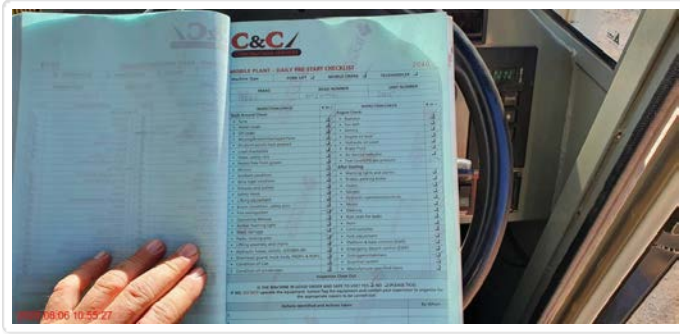
Kilometers



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## ASSESSMENT



Log Book

## BOOM AND ATTACHMENTS



No. 2 Section



Description



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Manufacturers Identification



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Description



Manufacturers Identification



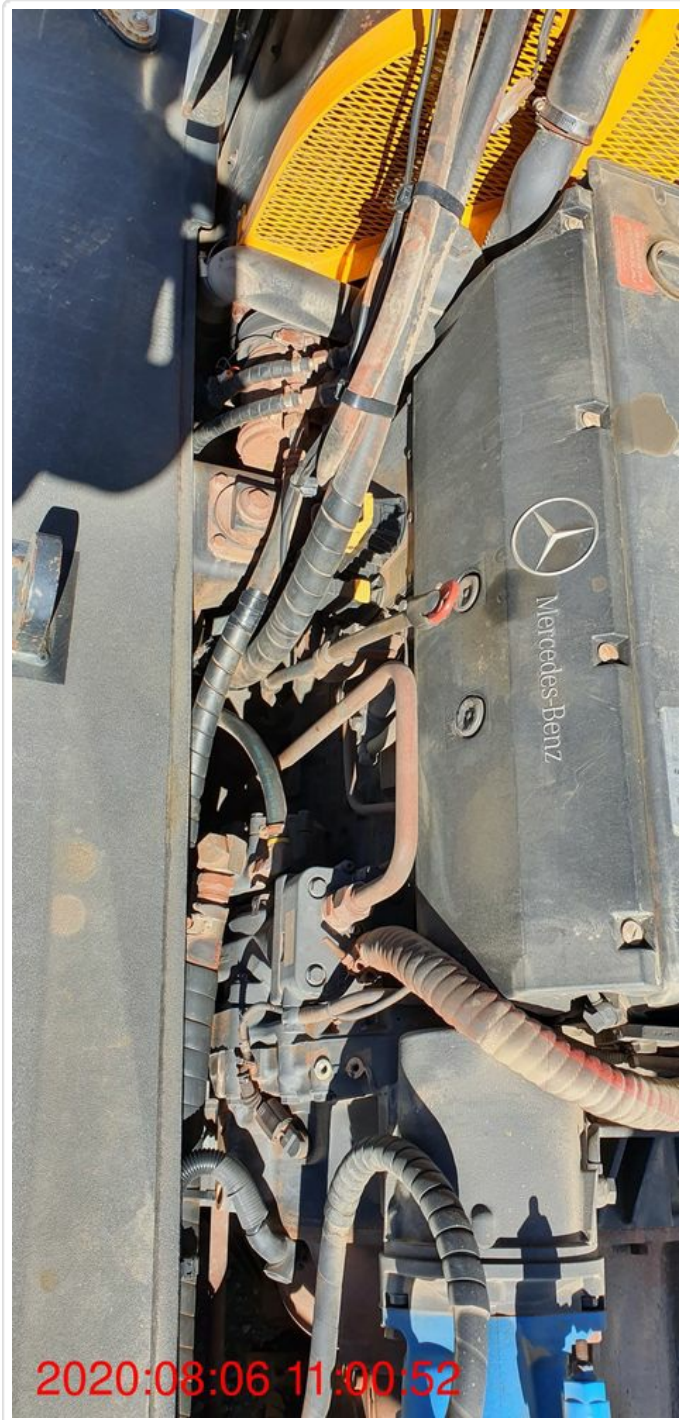
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**FRAME AND CABIN**

Air Conditioner

**DRIVE SYSTEMS**



Engine Mounts

**CHASSIS INSPECTION**

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Rear Brake(s)



Articulation Joint



## HYDRAULIC SYSTEM

Emergency Steering Pump



## AIR SYSTEMS

Air Cylinders

## ELECTRICAL SYSTEMS

Back-up Alarm

## MAIN WINCH

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Mounts



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Correct Assembly and Connection of Hoist Rope Anchor



**FUNCTIONAL TESTS - MAIN WINCH**

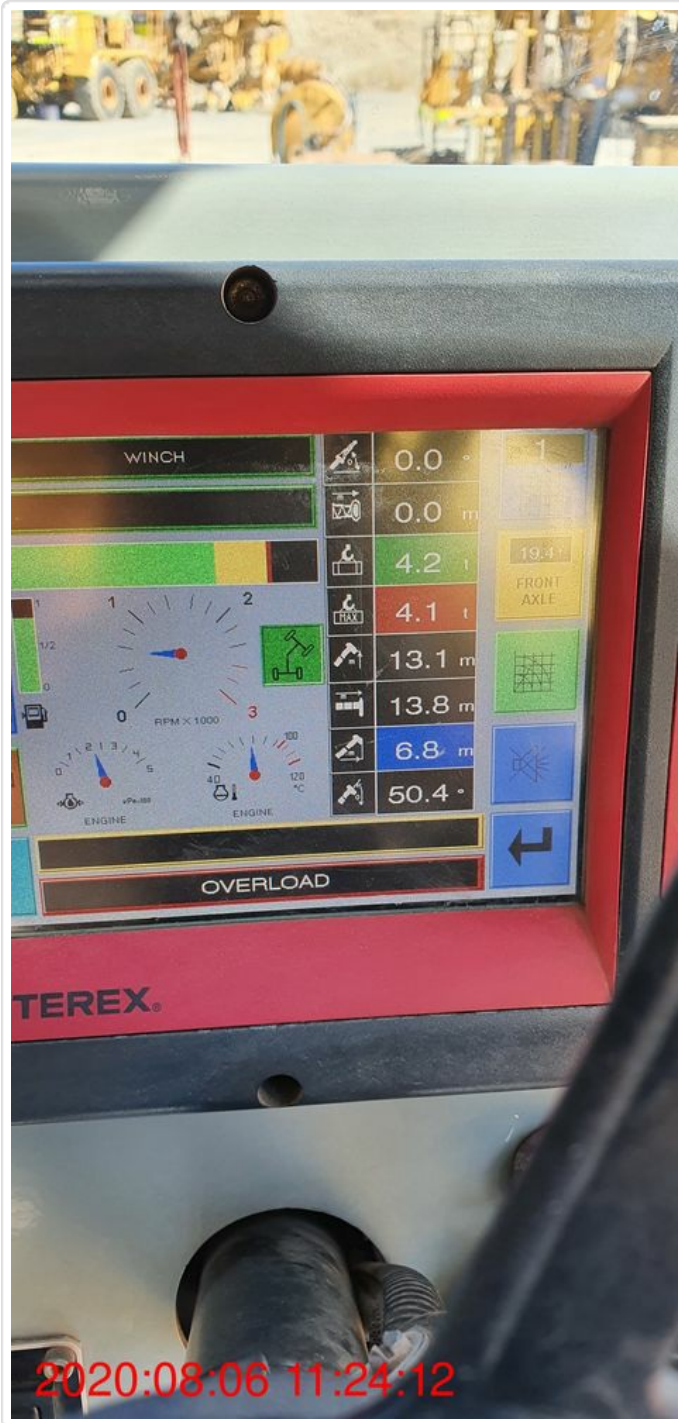


Load Chart Reference Number

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Line Pull Test - Load RCI

Line Pull Test - Load Measured





# TEREX CRANES

## Terex Lifting Australia Pty. Ltd.

MODEL: AT-20 OM906 / MD3060 SERIAL No: 2005 HOURS: 8327 DATE: 5/8/20  
 ODOMETER READING: 29000 SERVICE TYPE: 250 TECHNICIAN NAME: R. Mayton  
 Quality Assurance Doc. No: QF23L.003

Note: ALL Items Must be "Ticked" if carried out / "Crossed" if not carried out / marked N/A if not applicable.

250 / 750 Hour Service Schedule	Comments
<b>CABIN</b>	
<input checked="" type="checkbox"/> Check EMERGENCY Steer Pump Operation	Refer Operator's Manual for Spec.
<input checked="" type="checkbox"/> Check 2/4WD & HI/LO Operation	
<input checked="" type="checkbox"/> Check HI/LO - 2/4WD Audible Warning	
<input checked="" type="checkbox"/> Check Diff Lock Operation	
<input checked="" type="checkbox"/> Check Holding Brake Operation	
<input checked="" type="checkbox"/> Check Emergency Stop Button Operation	
<input checked="" type="checkbox"/> Check Emergency Brake Release	
<input checked="" type="checkbox"/> Check Park Brake Operation	
<input checked="" type="checkbox"/> Check Foot Valve Operation	
<input checked="" type="checkbox"/> Check AM/FM Radio Operation	If fitted
<input checked="" type="checkbox"/> Check Rotating Light Operation	
<input checked="" type="checkbox"/> Check Heater Operation	
<input checked="" type="checkbox"/> Check Wiper Operation	
<input checked="" type="checkbox"/> Refill Windscreen Washer Water & Test Operation	
<input checked="" type="checkbox"/> Check Indicators & Audible Warning	
<input checked="" type="checkbox"/> Check Horn(s)	
<input checked="" type="checkbox"/> Check Interior Light Operation	
<input checked="" type="checkbox"/> Check Air Conditioning	
<input checked="" type="checkbox"/> Check Hyd. Sys. Base Pressure - use Dash Gauge	Refer Operator Manual for Pressures <u>500 psi</u>
<input checked="" type="checkbox"/> Check Hyd. Sys. Max Pressure - use Dash Gauge	Refer Operator Manual for Pressures <u>3000 psi</u>
<input checked="" type="checkbox"/> Check Steer Pressure at Full Lock (dash gauge)	<u>3000 psi</u>
<input checked="" type="checkbox"/> Check SLEW Light Operation	
<input checked="" type="checkbox"/> Check ALL 'Crane Control Levers' for Operation	
<input checked="" type="checkbox"/> Check ALL Hydraulics for Correct Operation	
<input checked="" type="checkbox"/> Check ALL Work Lights	
<input checked="" type="checkbox"/> Check Head Lights HI/LO	
<input checked="" type="checkbox"/> Check Clearance Lights	
<input checked="" type="checkbox"/> Check Stop Lights	
<input checked="" type="checkbox"/> Check Reverse Light(s) & Alarm	
<input checked="" type="checkbox"/> Check ALL Instruments for Operation/Illumination	
<input checked="" type="checkbox"/> Check Reverse Camera Operation	
<input checked="" type="checkbox"/> Check Low Air Warning Devices	
<input checked="" type="checkbox"/> Check ALL Warning Lights and Buzzers	
<input checked="" type="checkbox"/> Check Cabin for Water Leaks	
<input checked="" type="checkbox"/> Check Seat Mounting & Operation	
<input checked="" type="checkbox"/> Check Seat Belt Condition	
<input checked="" type="checkbox"/> Check Door Locks & Catches for Operation	
<b>ENGINE BAY &amp; TRANSMISSION</b>	
<input checked="" type="checkbox"/> Clean or Change Primary (Outer) Air Filter Element	
<input checked="" type="checkbox"/> Visual Inspect Radiator Screen & Cooler Cores for Blockage	
<input checked="" type="checkbox"/> Visual Inspect Air Intake pipes & hoses	Check For Tightness, Cracking / Splitting
<input checked="" type="checkbox"/> Tighten Intake Hose Clamps	
<input checked="" type="checkbox"/> Check Coolant & Inhibitor Level / Concentration	
<input checked="" type="checkbox"/> Check ALL Coolant / Heater System Hoses	
<input checked="" type="checkbox"/> Check Fan Viscous Coupling	
<input checked="" type="checkbox"/> Check Engine Drive Belts	
<input checked="" type="checkbox"/> Check Alternator & A/C Compressor Mount/Bolts	
<input checked="" type="checkbox"/> Check Engine Oil Level	

	Comments
<b>250 / 750 Hour Service Schedule Cont.</b>	
✓ Check for Oil Leaks in Engine Area	
✓ Check Engine, Lines & Hoses for Abrasion & Position	
✓ Check Engine Piping for Leaks	
✓ Visual Inspect Engine Mount(s) Condition	
✓ Check Hydraulic Pump PTO, Mounting & Bolts	
✓ Check Transmission Oil Level	
✓ Check for Fuel Leaks ALL Points	
<b>DRIVETRAIN</b>	
✓ Check Planetary Reduction (s) Oil Level	
✓ Check Transfer Case Oil Level	Run at 1000 rpm for 1 min and check immediately
✓ Check Transfer Case Cooler System for Flow & Leaks	
✓ Re-tension centre bearing mounting bolts	1/2" UNC Gr 8. Torque to 125 Nm (92 lb.ft)
✓ Check centre bearing and housing mounting bushes	
✓ Check ALL Drive / Jack Shaft Universal Joints	
✓ Lube ALL Universal Joints on Drive Line	
✓ Check ALL Steering Pins / Bearings for Wear	
✓ Lube ALL Steering Pins / Bearings	Use SBX-2 Grease
✓ Tighten Steering Pin Nuts	As per Service bulletin SB0069
✓ Inspect steering hoses	As per Service bulletin SB0063
✓ Inspect steering cylinder rod clevis	
✓ Check Front Differential Oil Level	
✓ Check Rear Differential Oil Level	
✓ Check Front & Rear Spring Packs Clamping Bolts	
✓ Check ALL Springs for Broken Leaves	
✓ Check Radius Rods/Front Torsion Arms Tightness	Refer Operators Manual for Tensions
✓ Check Brake Shoe Thickness ( via insp.holes )	Document Lining Thickness <i>f 12mm Rear 10.5mm</i>
✓ Adjust ALL Service Brakes	
✓ Drain ALL Air Tanks of Water / Sediments	
<b>BOOM ASSEMBLY</b>	
✓ Adjust ALL Retract & Extension Ropes	Refer Operator's Manual for Spec. <i>18mm. inspec.</i>
✓ Check Winch Gearbox Oil Level	
✓ Check Winch Brake Oil Level	
✓ Check Winch Unit Mountings & Bolts	
✓ Check Winch Rope Condition & Lubrication	
✓ Visual Inspection of ALL Boom Sect. Damage/Bend	
✓ Inspect ALL Compensating Sheave Bearings	
✓ Inspect ALL Sheaves on Boom Assy.	
✓ Check Pusher Bar Condition & Adjustment	
✓ Lube All Boom Sections, Sheaves & Wear Pads	
✓ Check Boom Rear Pivot Pins/Bearings for Movement	Use SBX-2 Grease
✓ Lube Rear Boom Pivot Bearings	Use SBX-2 Grease
✓ Check Luff Cyl. Top/Bott Pins & Bearings Movement	Use SBX-2 Grease
✓ Lube ALL Luff Cyl. Bearings	
<b>CHASSIS &amp; FINAL CHECKS</b>	
✓ Check Center Pivot Bearings/Pins for Movement	Refer Service Bulletin SB0105
✓ Lube Center Pivot Bearings ALL Points	Use SBX-2 Grease
✓ Check Hydraulic Reservoir Oil Level	
✓ Check ALL Hydraulic Cyl's for Damage/Leaks	
✓ Check ALL Hydraulic Hoses for Damage/Leaks	
✓ Check ALL Wiring for Damage & Correct Routing	<i>Requires earth lamp at Articulation</i>
✓ Check for Air Leaks ALL Points	
✓ Check Battery Electrolyte Level	Top Up
✓ Clean & Check Battery Terminals-Holding Clamp	
✓ Check Tyre Pressures & Tyre Condition	
✓ Carry Out FULL Function/Operate Test Drive	
✓ Check Exhaust Brake Operation ( where fitted )	
✓ Lift Test Weight if Available	<i>Ree-axel/scale out by 100kgs</i>
✓ Check LMI / SLI Calibration	

<b>500 Hour Service Schedule</b>		<b>Comments</b>
Carry Out 250 Hour Service Schedule		
<i>Add the Following:</i>		
Change Engine Oil		
Change Engine Oil Filter		
Change Hydraulic Oil Return Filter		
Change Transfer Case Oil		
Change Front Differential Oil		
Change Rear Differential Oil		
Change Planetary Reduction (s) Oil		
Lube ALL Service Brake Actuating Shafts		
Adjust Rear Boom Pivot Bearings		
Change Winch Gearbox Oil		
Change Winch Brake Oil		
<b>1000 Hour Service Schedule</b>		<b>Comments</b>
Carry Out 250 / 750 Hour Service Schedule		
Carry Out 500 Hour Service Schedule		
<i>Add the Following:</i>		
Change Primary (Outer) Air Filter Element		NOT Applicable on 100 Hour Service
Change Safety (Inner) Air Filter Element		NOT Applicable on 100 Hour Service
Change Fuel Filter Element		
Change Fuel Pre-filter Element		
Change Cylinder Head Valve Cover Gasket		
Adjust Valve Clearances		
Change Auto Transmission Main Filter		IS Applicable on 100 Hour Service. Top up oil
Change Auto Transmission Auxillary Filter		NOT Applicable on 100 Hour Service. Top up oil
Change Auto Transmission Oil		NOT Applicable on 100 Hour Service
Sample Hydraulic Oil using Kit PP2128300		NOT Applicable on 100 Hour Service



<i>2000 Hour Service Schedule</i>		<i>Comments</i>
Carry Out 250 / 750 Hour Service Schedule		
Carry Out 500 Hour Service Schedule		
Carry Out 1000 Hour Service Schedule		
<i>Add the Following:</i>		
Change Engine Coolant		
Check Wear Pad "Clearance" & Boom Alignment		If Wear is Out Limits Strip & Remove ALL Pads
<i>100 Hour First Service Schedule</i>		<i>Comments</i>
Carry Out 250 / 750 Hour Service Schedule		
Carry Out 500 Hour Service Schedule		
Carry Out 1000 Hour Service Schedule		
<i>Add the Following:</i>		
Tighten ALL Hose Clamps		
Check Tension of ALL Engine mounts		Refer Parts Manual for Tension Settings
Re-Tension ALL Wheel nuts		Refer Operators Manual for Tension Settings
Re-Tension ALL 'U' Bolts & Suspension Bolts		Refer Operators Manual for Tension Settings
Re-Tension All Front/Rear Diff. Carrier Bolts.		Refer Operators Manual for Tension Settings
Re-Tension Center Pivot Pins - Upper/Lower		Refer Operators Manual for Tension Settings
Check & Adjust Rear Axle Alignment to Center		Adjust Alignment to Center Pivot-Tolerance 5mm
Tighten ALL Drive Shaft / Jack Shaft Flange Bolts		

*Service Carried out by:* \_\_\_\_\_ *Signature* \_\_\_\_\_

*Service Carried out by:* \_\_\_\_\_ *Signature* \_\_\_\_\_

**ADDITIONAL FAULTS IDENTIFIED:**

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12	



Accreditation no. 19898

Certificate No: NSW150462

CraneSafe®

**CERTIFICATE OF ANNUAL INSPECTION AND TESTING**

**Articulated Mobile Crane**

**Inspection Date:** 06/08/20

**Renewal Date:** 06/08/2021

**Issued Date:** 07/08/2020

**Location of Inspection:** KEMPSEY

**Crane Owner:** C & C Construction Services

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

**Crane Make:** Franna

**Crane Model:** AT 20

**Crane Serial Number:** 4741

**YOM:** 2012

**Hours:** 8240



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

Codes of Practice  Manufacturer's Instructions.

**Inspection Comments:**

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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:** Troy Kiem

**CraneSafe Assessor No.:** NSW1082

**CraneSafe Assessment No:** AC A 150462-11

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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