

Inspection
28.11.2023



Unit	Bronto Skylift S90HLA 57283-138	Project ID	SI-135069
Serial number	57283-138	Customer	Wheco
Manufacturing year	2020	Base	Wheco 2989 Kingsgate Way Richland, WA
Next inspection		Contact	
Operating hours	1055 h	Telephone	
RPM-UP hours	374 h	Email	
Software version			
B-RAM%	45		

Service company	Bronto Skylift Bronto Skylift NA	Service technician	Mikko Laiho
Address	47 E Taft Vineland Road 32824 Orlando, FL	Telephone	
		Email	mikko.laiho@brontoskylift.com

	Working time	
	Travel time	
	Mileage	0 km (0 mi)

Date	28.11.2023	Approved by	
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1. General Inspection

1.1. Oil leaks:	Pass	Completed	☒
1.2. Main frame fastening to vehicle:	Pass	Completed	☒
1.3. Instruction-, warning stickers and labels:	Pass	Completed	☒
1.4. Possible accident damage to chassis/bodywork:	Pass	Completed	☒
1.5. Signal and warning lights:	Pass	Completed	☒
1.6. Protective covers and bags:	Pass	Completed	☒

2. Outrigger section

2.1. Outriggers:	Pass	Completed	☒
2.2. Outrigger ground plates:		Skipped	☒
2.3. Automatic levelling system:	Pass	Completed	☒
2.4. Rear axle locking device:		Skipped	☒
2.5. Hydraulic pump drive shaft:	Pass	Completed	☒

3. Turntable

3.1. Fastening of rotation gearbox:	Pass	Completed	☒
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4. Booms

4.1. Boom sections:	Pass	Completed	☒
4.2. Limit switches of booms:	Pass	Completed	☒
4.3. Cables and hoses in the booms:		Completed	☒
4.4. Fastening of rotation ring:	Pass	Completed	☒
4.5. Joints, bearings and locking devices:	Pass	Completed	☒

5. Working cage

5.1. Levelling system of the cage:	Pass	Completed	☒
5.2. Doors, hinges, locks, foot plates and handrails of the cage:	Pass	Completed	☒
5.3. Fastening points of the safety harnesses:	Pass	Completed	☒

6. Emergency Devices

6.1. Emergency stop button:	Pass	Completed	☒
6.2. Emergency lowering:	Pass	Completed	☒
6.3. Emergency battery pump operation:	Pass	Completed	☒

7. Electric devices

7.1. Functional tests:	pass	Completed	☒
7.2. Overload alarm:	Pass	Completed	☒
7.3. Electric centers:	Pass	Completed	☒

8. Optional devices

8.1. Winch (optional):		Skipped	☒
8.2. Collision guard (optional):		Skipped	☒
8.3. Emergency operation engine (optional):		Skipped	☒
8.4. Hydraulic generator (optional):		Skipped	☒
8.5. Slide surfaces of the extendable cage, (optional):	Pass	Completed	☒



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57283-138
Serial number 57283-138
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Software version
B-RAM% 45

Project ID
Customer

Base

Contact
Telephone
Email

Service company Bronto Skylift
Bronto Skylift NA
Address 47 E Taft Vineland Road
32824 Orlando, FL

Service technician Mikko Laiho
Telephone
Email mikko.laiho@brontoskylift.com

Working time
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1. General Inspection

1.1. Oil leaks

Completed ✓

Work Visual inspection of the unit. If leaks are found, report to the supervisor. Check also the amount of hydraulic oil, when the unit is in transport position.

Result Pass

Spare Parts

Comments

1.2. Main frame fastening to vehicle

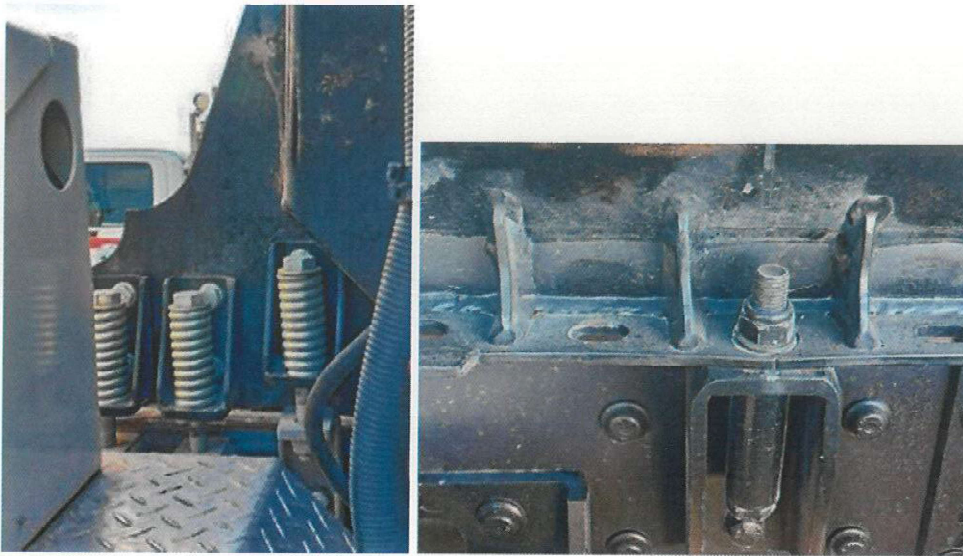
Completed ✓

Work Check the fastening of the main frame to the vehicle when unit is standing on its tyres, normal bolts on rear side and bolts + springs on front side (If spring are shaved bolted -> replace bolts immediately).

Result Pass

Spare Parts

Comments



1.3. Instruction-, warning stickers and labels Completed ✓

Work	Visual inspection that all stickers and labels are ok and untouched (see operation manual for further info).
Result	Pass
Spare Parts	
Comments	

1.4. Possible accident damage to chassis bodywork Completed ✓

Work	Visual inspection of damages to Chassis bodywork, arrange repair if damages noted.
Result	Pass
Spare Parts	
Comments	

1.5. Signal and warning lights Completed ✓

Work	Check the operation of all signal and warning lights on all control stations and in truck cabin.
Result	Pass
Spare Parts	
Comments	

1.6. Protective covers and bags Completed ✓

Work	Check the condition of all protective covers and bags.
Result	Pass
Spare Parts	
Comments	

2. Outrigger section

2.1. Outriggers Completed ✓

Work Check the condition of the mechanical constructions and especially all welding seams of the outriggers. Check the operation of the outrigger's flashing lights. Check the condition, fastening and cleanness of all limit switches and counterparts of the outriggers. Test functions by using display symbols and Test I/O pages table. Verify by testing that the control current for the boom movement is switched on only when the outriggers are in their working position.

Result Pass

Spare Parts

Comments

2.2. Outrigger ground plates

Skipped ↴

Work Visual inspection of the condition of the plates and fastenings.

Result

Spare Parts

Comments

2.3. Automatic levelling system

Completed ✓

Work Check that levelling system is lifting unit up normally to 0.2° level horizontally (lengthwise and crosswise), check wide, one sided and narrow levelling.

Result Pass

Spare Parts

Comments

2.4. Rear axle locking device

Skipped ↴

Work Check the operation of the rear axle locking device, pay attention to air-suspension with locking device.

Result

Spare Parts

Comments

2.5. Hydraulic pump drive shaft

Completed ✓

Work Check the fastening of the drive shaft flanges of the hydraulic pumps and make sure there is no looseness on universal joints.

Result Pass

Spare Parts

Comments

3. Turntable

3.1. Fastening of rotation gearbox

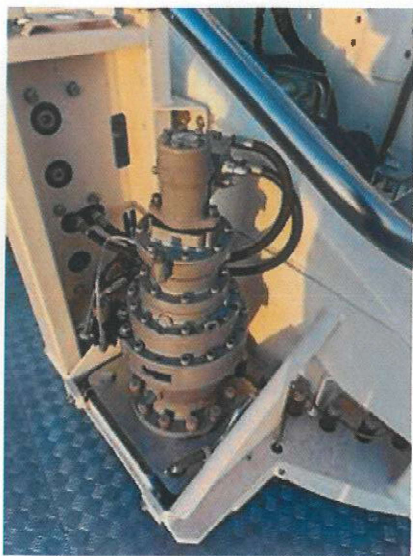
Completed ✓

Work Check the fastening, for hydraulic leaks and damages of the Rotation gearbox (M12x30 = 80Nm, M16x40 = 260Nm). Check the handle for manual rotation.

Result Pass

Spare Parts

Comments



4. Booms

4.1. Boom sections

Completed ✓

Work	Visual inspection of the boom sections and welding seams for mechanical damages and corrosion. Inspection of telescopic ropewires/chains. Check condition of cable chain and fastenings inside the booms.
Result	Pass
Spare Parts	
Comments	

4.2. Limit switches of booms

Completed ✓

Work	Check the condition, fastening and cleanness of all limit switches and counterparts of the booms. Verify by operating from the turntable control panel with empty working cage that all limitations are working. (Test functions by using display symbols and Test I/O pages table).
Result	Pass
Spare Parts	
Comments	

4.3. Cables and hoses in the booms

Incomplete ⚠

Work	Check the condition and fastenings of all boom cables and hydraulic hoses, especially at the pivot points of the booms and in the cable chain of the telescopic booms. (Drive booms out to see better).
Result	
Spare Parts	
Comments	Need new hoses



4.4. Fastening of rotation ring

Completed ✓

Work Check the tightness of the rotation ring screws only by "knocking" the screws. If the screws are loose, they have stretched or broken. These stretched/broken screws and one screw from both sides of the stretched / broken screws must be replaced immediately. (tightening torque: M12/12.9 = 145Nm, M16/12.9 = 330Nm, M18/12.9 = 460Nm, M20/12.9 = 650Nm, M24/12.9 = 1080Nm)

Result Pass

Spare Parts

Comments



4.5. Joints, bearings and locking devices

Completed ✓

Work Check the condition of joints, bearings and locking devices of shafts, also inside the booms.

Result Pass

Spare Parts

Comments

5. Working cage

5.1. Levelling system of the cage

Completed ✓

Work	Check the operation of cage leveling system and all its security systems.
Result	Pass
Spare Parts	
Comments	

5.2. Doors, hinges, locks, foot plates and handrails of the cage Not started ⚠

Work	Check the condition of the doors, hinges, locks of the working cage, lubricate hinges and locks lightly with oil. Check the condition of the foot plates and handrails of the working cage for any damages.
Result	
Spare Parts	
Comments	

5.3. Fastening points of the safety harnesses Completed ✓

Work	Visual inspection of the fastening points for any damages.
Result	Pass
Spare Parts	
Comments	

6. Emergency Devices

6.1. Emergency stop button Completed ✓

Work	Check the operation of the EM-STOP push buttons and especially verify the locking of the button on the upper position. NOTE! If unit has Cage EM-Stop by-pass button on the Turntable, check also function of By-pass button.
Result	Pass
Spare Parts	
Comments	

6.2. Emergency lowering Completed ✓

Work	Check the operation of the emergency lowering on every control station.
Result	Pass
Spare Parts	
Comments	

6.3. Emergency battery pump operation Completed ✓

Work	Check the operation of the emergency battery pump on every control station.
Result	Pass
Spare Parts	
Comments	

7. Electric devices

7.1. Functional tests Completed ✓

Work On every control station: Check STOP / START function. Check the operation of "Dead man's" function, test also that RPM doesn't rise when joystick is not in center. Check the operation of the signal horn. Check the operation of the intercom. Check the operation of "turtle" mode.

Result pass

Spare Parts

Comments

7.2. Overload alarm

Completed ✓

Work Check the operation of the overload with the empty cage, set cage load to max. setting. Add weight into cage, alarm should activate when weight is over maximum load.

Result Pass

Spare Parts

Comments

7.3. Electric centers

Completed ✓

Work Check the condition, cleanliness and tightness of the control centres of the cabin, outriggers, turntable, working cage and extra equipment. Check the fastening of the circuit boards and relay cards especially.

Result Pass

Spare Parts

Comments



8. Optional devices

8.1. Winch (optional)

Skipped ⚠

Work Check the operation of the winch and the condition of the wire-rope and the locking.

Result

Spare Parts

Comments

8.2. Collision guard (optional)

Skipped ↴

Work Check the working cage collision limit switch operation, operation normally= Down 65cm., Front 85cm. and to the Side 100cm.

Result

Spare Parts

Comments

8.3. Emergency operation engine (optional)

Skipped ↴

Work Check the operation of the combustion engine emergency operation and service of engine according to manufacturer's Instructions. (Kohler/Hatz).

Result

Spare Parts

Comments

8.4. Hydraulic generator (optional)

Skipped ↴

Work Check the operation of hydraulic generator at all control stations, measure output voltage with- and without load.

Result

Spare Parts

Comments

8.5. Slide surfaces of the extendable cage, (optional)

Completed ✓

Work Check Extendable part movements.

Result Pass

Spare Parts

Comments