

# To save time and improve efficiency, check your KUHN baler



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ANNUAL MAINTENANCE: 21 TEST POINTS

## VBP RANGE

Variable chamber Baler-Wrapper Combination



### Daily maintenance:

- Clean the machine
- Check the correct lubrication by means of grease nipples
- Check the correct lubrication of all moving parts
- Visual inspection of all functions
- Check the belts
- Check the wrapping arms and safety arms



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**ANNUAL MAINTENANCE: 21 test points**

- ① Gearbox oil change
- ② Drive chain test (tension)
- ③ Automatic chain lubrication system test
- ④ Net, film and/or twine binding systems test
- ⑤ Electronic components test (control box and sensors)
- ⑥ Pick-up test (drive, tines, tine bars)
- ⑦ Rotor drive chain test (tension)
- ⑧ Belt trajectory test and replacement of fastening rods
- ⑨ Total machine greasing
- ⑩ Hydraulic system test (Progressive Density system)
- ⑪ Roller test (bearings)
- ⑫ Opticut system (knife sharpness and control) and hydraulic hatch test



- Hydraulic unit test and filter replacement ⑬
- Film cutting test (knives) ⑭
- Pre-stretcher test ⑮
- Safety systems test (satellite arm and emergency stop) ⑯
- Electronic components test (sensors) ⑰
- Wrapper functioning test in PIA mode ⑱
- Total machine greasing ⑲
- Road signaling test ⑳
- Carriage (towing bar/wheel nuts) ㉑

### Items to check



Belts



Filter



Pre-stretcher roller




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**READ THE SAFETY INSTRUCTIONS IN THE  
 OPERATING MANUAL PRIOR TO FOLLOWING  
 THIS WINTER CHECKLIST**

**Check List**

	Control points	Description	Manual Ref:	✓
			 Maintenance	
	Check	Check the condition of parts and components, and replace if necessary. Check the levels of all fluids, oils and lubricants, replenish to the maximum level if necessary.		
1	Gearbox oil	Check the oil level.	§ 10.8.12	
2	Bale chamber drive chains	Check the tension, stretch and wear of all drive chains.	§ 10.8.8	
	Chopping roller	Check the chopping roller distance.		
	Wrapping table drive chain	Check the chain tension	§ 10.8.14	
3	Automatic chain lubrication system	Check the oil level.	§ 10.8.11	
	Oil pump	Check the oil pump.		
4	Net roll	Check the net roll pre-tension.	§ 10.8.9	
	Net brake	Check the net brake tension.		
	Synthetic plate at intake plate	Check the position and wear of the synthetic plate.		
5	Sensors	Keep all sensors free of dirt. Make sure the distance of the sensors are correct.	§ 10.8.21	
6 & 7	Pick-up tines	Condition and completeness.		
	Pick-up & cutting unit drive chain	Chain tension for the pick-up.	§ 10.8.6	
	Stripper frame	The shape and position of the strippers		
8	Guide roller	The belts have to run aligned and may not wear through rubbing along the belt guides.	§ 10.8.8	
	Belts	Check the endless belts and the belts with lacing for wear and damages.		
9	Lubrication baler			
	Oil:			
	Tailgate locking pin	Oil the tailgate locking pins.	§ 10.7.1	
	Tailgate lock hinge	Oil the tailgate lock hinges.		
	Tailgate cylinder	Oil the lower end of the tailgate cylinders.		
	Tension arm	Apply an oil film between the tension arm and the hinge.		
	Net actuator	Oil the top and the bottom of the actuator.	§ 10.7.2	
	Duckbill braking catch	Oil the pivot point of the duckbill braking catch.		
Knife mechanism	Oil the pivot points of the knife mechanism.			




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			 Maintenance	
9	Grease:			
	PTO drive shaft	Lubricate the PTO drive shaft.	§ 10.6.1	
	Pick-up, overload coupling, Opticut and rotor	Lubricate (the bearing of) the pick-up, overload coupling, Opticut and rotor.	§ 10.6.2	
	Pick-up overload clutch	Lubricate the pick-up overload clutch.		
	Rotor cutter bar	Lubricate the rotor cutter bar.		
	Dropfloor cylinder	Lubricate dropfloor cylinder.		
	Pick-up & cutting unit drive chain	Lubricate the chain.		
	Tailgate hinge	Lubricate the tailgate hinges.		§ 10.6.3
	Tailgate cylinder	Lubricate the tailgate cylinders		
	Tension cylinders	Lubricate the lower end of the tension cylinders.		
	Drive roller	Lubricate the drive roller.		
	Extra drive roller	Lubricate the extra drive roller.		
	Brake axle	Lubricate the brake axle adjustment.	§ 10.6.11	
	Hitch ring	Grease underside of the hitch ring.	§ 10.6.12	
	Support	Lubricate the support.		
10	Hydraulic hoses	Check for damages and leakages.	§ 10.1	
	Hydraulic control block	Clean the baler hydraulic block and filter		
11	Bearing play rollers	Check the bearing play of the rollers.		
12	Knives	Sharpen or replace the knives if they are blunt. Check the locking axle for wear.	§ 10.8.7	
	Dropfloor cylinder	Check the cylinder on wear, play and leakage	§ 10.6.2	
13	Hydraulic hoses	Check for damages and leakages.	§ 10.8.5	
	Film wrapper hydraulic control block	Replace the filter element.		
	Cylinder of loading arm 1	Check the hydraulic cylinder for wear, play and leakage.	§ 10.8.13	
	Cylinder of loading arm 2			
Table cylinder		§ 10.8.14		
14	Film cutter knife	Check the condition of the film cutter knife.	§ 10.8.16	
	Film cutter cylinder	Check the film cutter cylinder for wear, play and leakage.		
15	Pre-stretch rollers	Check the rollers for rotating smoothly. Clean the rollers with methylated spirit or similar.	§ 10.8.15	
16	Satellite gears	Check the satellite gears on wear.	§ 10.8.17	
	Satellite brake	Check the satellite brake oil level.		
	Safety arm switch	Check the safety switches for functioning and damages		
	Sliding ring and sliding contacts	Check the sliding ring and sliding contacts for wear and oxidation.		




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			 Maintenance	
17	Sensors wrapper	Keep all sensors free of dirt. Make sure the distance of the sensors are correct.	§ 10.8.21	
18	Function control wrapper	Test all functions of the wrapper with PIA		
Lubrication wrapper				
19	Oil:			
	Wrapping table drive chain	Oil the drive chain.	§ 10.6.7	
	Grease:			
	Hinge of loading arm 1	Lubricate the hinge of loading arm 1.	§ 10.6.6	
	Cylinder of loading arm 1	Lubricate the cylinder of loading arm 1.		
	Hinge of loading arm 2	Lubricate the hinge of loading arm 2.		
	Cylinder of loading arm 2	Lubricate the cylinder of loading arm 2.		
	Table hinge	Lubricate the hinge of the table.	§ 10.6.7	
	Table cylinder	Press grease in the lubrication points.		
	Pre-stretcher gears	Lubricate the pre-stretcher gears.		
	Film cutter	Lubricate the film cutter.	§ 10.6.8	
Satellite gears	Lubricate the teeth of the satellite gears.	§ 10.6.9		
20	Safety decals	Keep all safety decals clean and legible.	§ 10.8.1	
	Lighting	Check all lighting equipment for proper working.	§ 10.8.2	
21	General			
	Complete machine			
	PTO drive shaft	Tubes of PTO shaft sliding correctly.	§ 10.8.4	
	Axle	Check the axle for damages and cracks.	§ 10.8.18	
	Bearing play	Check the bearing play of the wheel hubs.		
	Rims	Check the rims for damages and cracks.		
	Tires	Check the tire condition for damages (cracks, incisions, unusual objects) and pressure.		
	Brake shoes	Check the condition of the brake shoes.	§ 10.8.19	
	Brake hoses and Brake connections	Check the hoses and connections for damages and leakage.		
	Tighten			
	Bolts and nuts		§ 10.8.3	
Wheel nuts	Tighten the wheel nuts to 270 Nm.			
Drawbar bolts and nuts	Tighten the drawbar bolts and nuts to 450 Nm.			
Drawbar eye	Tighten the bolts of the drawbar eye to 310 Nm.			



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