LEXION
Post Harvest Inspection

CLAAS of America Inc.

8401 South 132nd Street
Omaha, NE 68138
Phone: 402-861-1000
Fax: 402-861-1003

Dear Customer

The After Harvest LEXION Combine Inspection is to enable an accurate picture of the machine's condition after each harvest. This will highlight possible failures which could be avoided. The reliability of the machine for the next harvest could also be increased, thus reducing the risk of down time.
This procedure is also required to qualify used LEXION's for the *VALU CARE* extended protection program for used machines. Prior to the sale of the LEXION with the *VALU CARE* coverage, this procedure must be carried out and signed by the dealer.
Components that show natural wear and tear, should be graded by percentage of wear in the "Comments" section, but are not required to be replaced, if they will not adversely affect the machine's operation or create problems for other components.
The machine should be clean inside and out. Apart from that the maintenance should be carried out as per the operator's manual at the intervals designated in the maintenance section. A combination of the prescribed maintenance work and the after harvest checks should be carried out.

For the after harvest check, see the following:

1. Complete the following statement:

Dealer		Machine model	
Owner		Machine serial number	
Street		Engine hours	Acres
City	Zip/Postal Code	Technician	Date

	Yes	No
Engine ready to start?	☐	☐
Machine cleaned?	☐	☐
Engine oil change needed?	☐	☐
Hydraulic oil change needed?	☐	☐
Maintenance completed as per operator's manual:	☐	☐

2. Check all the components of the machine sections listed in the following table

   Check all those points that have been highlighted by a X in the "Check" columns.

3. Please place a X in the results section:

   - Not Available / Not Correct
   - OK
   - Adj / Replace / Repair Needed

4. Enter any comments or notes related to the inspected component.

5. Enter repair time estimates to complete the repair. (Optional for the *VALU CARE* Inspection purposes)

6. The completed after harvest check should be signed by the dealer as well as the customer (only dealer signature needed for *VALU CARE* Inspections).

MACHINE SECTIONS COMPONENTS	CHECK							RESULTS				
	Available / Complete / Correct fit	Level / Pressure / Charge	Condition / Wear / Clean	Sealing	Operation	Adjustment / Tension / Play	With diagnostic computer (CDS)	Not available / Not correct	OK	Adj / Replace / Repair Needed	**Comments** Explain What was adjusted, repaired or replaced	Estimated Repair Time (Optional)
FLUID LEVEL CHECKS												
Check Final Drive Oil Level RH [MTS Trac System RH (option)]		X	X	X								
Check 2-Speed Cylinder Gearbox Oil Level (option)		X	X	X								
Check Brake Fluid		X	X	X								
Check Rear Axle Oil Level RH (2WD-Oil 108mm below check)		X	X	X								
Check Rotor Gearbox Oil Level RH		X	X	X								
Check Rotor Gearbox Oil Level LH		X	X	X								
Check Engine Transfer Gearbox Oil Level		X	X	X								
Check Hydraulic Oil Level (FH Positioned Correctly)		X	X	X								
Check Engine Oil Level		X	X	X								
Check Engine Coolant Level and Strength		X	X	X								
Check Engine Air Filter			X	X								
Check Rear Axle Oil Level LH(2WD-Oil 108mm below check)		X	X	X								
Check Transmission Oil Level		X	X	X								
Check Final Drive Oil Level LH [MTS Trac System LH (option)]		X	X	X								
Check Unloading Auger Gearbox Oil Level		X	X	X								
Ensure All Bearings Take Grease			X	X								
CAB / OPERATOR'S PLATFORM – MACHINE FUNCTION												
Run Engine Low RPM					X							
Starter/Alternator					X							
Wiper motor and arm			X		X							
Windshield washer operation			X		X							
Check HVAC system for proper operation					X							
Cab Filters			X									
CAB Access Ladder			X		X							
Mirrors			X		X							
working lights, warning lights, turn signals)					X							
Operator's Seat Adjustment			X		X							
Climate controlled seat (option)					X							
Seat Belts			X		X							
Buddy Seat			X		X							
Cooler and Fridge (option)					X							
Steering Column (Tilt and Telescoping)			X		X							
Parking Brake Operation and Rubber Boot			X		X							
Foot Brake Operation and Rubber Boot			X		X							
Gear Selector and Operation					X							
Cab Door(s) Operation	X			X	X							
Cab Door(s) Sealing and latches	X		X	X								
Radio					X							
Inspect Cab Glass			X									
Operator Manuals and drawers	X		X		X							

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Inspect propulsion lever for smooth operation (FWD, Neutral and REV)					X	X						
Road Travel Switch (Red Switch for Hydraulics)			X		X							
Inspect keypad and/or dials of CEBIS or IMO			X		X							
Engagements (Threshing, header and unloading)			X		X							
Disengagements (Threshing, header and unloading)			X		X							
Seat occupancy switch					X							
Inspect console			X									
Inspect Central Electrics Compartment(s)			X	X								
Run Engine High RPM					X							
Console switches for function					X							
Multi-function lever switches					X							
Optional Software Updates and Create Backup for getting the data card up-to-date							X					
Check combine to ensure adjusting to different crop settings					X							
Printer (option)					X							
Check variable feederhouse speed (option)	High Speed_____				Low Speed_____							
Check threshing cylinder speed	High Speed_____				Low Speed_____							
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Check threshing cylinder w/ 2 speed (option)	High Speed in LowRange_____				Low Speed in LowRange_____							
	High Speed in HighRange_____				Low Speed in HighRange_____							
Check variable rotor speed (option)	High Speed_____				Low Speed_____							
Check fan speed	High Speed_____				Low Speed_____							
Check concave open/close	All the way Open_____				All the way Closed_____							
Check top sieve open/close	All the way Open_____				All the way Closed_____							
Check bottom sieve open/close	All the way Open_____				All the way Closed_____							
Optional Software Updates and Create Backup for getting the data card up-to-date							X					
Tip: After a warm up run of the engine and components, compare bearing temps (Left/Right) as an aid for bearing inspections			X								Includes but not limited too: Feederhouse, APS, Threshing cylinder, Impeller, Rotor front/rear, Straw Chopper and Cleaning	

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FRONT - FEEDERHOUSE												
Lower Feederhouse					X							
Inspect Master Cylinders (Brake components)					X	X						
Inspect Steering Orbitrol Valve				X	X							
Front face panels/decals												
Feederhouse dust extractor			X		X							
Header drive shafts			X									
Inspect multi-coupler			X	X								
Inspect front protective guards			X									
HP Faceplate (option)			X									
HP Adjusting Linkage (option)			X		X							
Inspect feederhouse wiring harnesses and connectors			X									
Inspect feederhouse for damaged sensors and/or switches			X									
Inspect Cruise Pilot components and linkages (option)			X									
Inspect the feederhouse reverser for wear, drive motor for leaks and linkage for free movement			X		X							
Inspect threshing inspection door above feederhouse			X									
Inspect APS Drum			X									
Inspect APS Wear Caps			X									
Inspect threshing cylinder [incl. rasp bars and filler plates(option)]			X									
Inspect returns auger/bearing and outlet			X									

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Raise Feederhouse					X							
Engage and inspect safety locks			X									
Inspect the conveyor chains for excessive wear and proper tension			X			X						
Inspect chain slats, guides/ sprockets and respective gib keys			X			X						
Inspect wear strips on the floor of the feederhouse			X									
Inspect auto contour/HP cylinders for damage or oil leaks			X		X							
Inspect stage 2/stage 3(option) drive belt, pulleys, tensioners and idlers for proper alignment, unusual wear grease build up or glazing			X		X	X						
Inspect all feederhouse bearings			X		X							
Inspect frame of the feederhouse for structural damage			X									
Inspect and clean rocktrap			X									
Inspect disawning plates and linkage			X			X						
Inspect Intensive Threshing Segements (ITS) and hardware (option)			X								Installed? Yes or No	
Inspect preconcave for debris build up and damage (Type? small grains, corn, etc.)			X									
Check the concave clearance on the APS (must be parallel ±1mm on each side)						X						
Inspect prep floor and prep floor frame			X									
Inspect feederhouse lift cylinders and hydraulic lines			X	X	X							
Inspect feederhouse dampening springs or accumulators/valve (Machines equipped with accumulators, optional pressure check)		X	X	X	X	X					Accum 1 _____ Bar Accum 2 _____ Bar Accum 3 _____ Bar	
Inspect trac suspension(option)			X		X							
Inspect the top of the transmission, including harnesses/connectors, actual value switches, hydraulic lines/valve and debris build up			X	X	X							
Inspect transmission mount and frame structure for cracks/bad welds and transmission seal for leakage			X	X	X							
Inspect parking brake adjustment			X		X							
Inspect service brake calipers and adjustment			X		X							
Inspect clean grain cross auger/flighting and housing			X									
Inspect returns cross auger/flighting and housing			X									

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LEFT SIDE OF MACHINE												
Check and remove the battery disconnect switch			X		X							
Open/close of LH side shield			X		X							
Inspect battery and tools compartment			X		X							
Remove and inspect LH guards			X									
Inspect decals on LH side	X		X									
Inspect impeller drive belt, pulleys, tensioners and idlers for proper alignment, unusual wear, grease build up or glazing			X		X	X						
Inspect feederhouse direct drive/stage 1, step drive or variator drive pulleys, tensioners, idlers for proper alignment, unusual wear, grease build up or glazing (option)			X		X	X						
Inspect hydraulic reel drive and pump null position (option) as well as seals/hoses for leakages and proper operation			X	X	X	X						
Inspect rotor covers hydraulic valve/lines (option)												
Check linkages for free movement of Left Side concave open/close			X		X							
Inspect lubricating lines for major components on Left Side			X									
With concave fully closed, check Left Side concave clearance on the threshing cylinder (Refer to OMM)	Front Left _____mm Rear Left _____mm											
Inspect concave for debris build up, damage and/or excessive wear			X									
Check concave accumulators stored pressure reading (may or may not be equipped with)		X									Pressure _____Bar	
Inspect working hydraulic stack for leakages and electrical wiring harnesses/connectors for damage			X	X	X							
Inspect the Left Side final drive shafts and couplings for unusual spline wear or damage			X									
Inspect Left Side tires rims/tracks for loose hardware or damaged hardware as well as excessive wear, damage and proper air pressure -- Tip: For MTS driveshafts disassemble and apply anit-seize (option)			X									
Inspect Left Side cleaning fan and housing			X		X							
Inspect Left Side sieve pan bushings and rocker arm drive			X		X							
Inspect master valve(Y77) for hydraulic leakages or damage electrical harnesses/connectors (may or may not be equipped)			X		X							

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Inspect sieve pan stage 3 drive belt, pulleys, tensioner and idlers for proper alignment, unusual wear grease build up or glazing			X		X	X						
Inspect sieve pan stage 2 drive belt, pulleys, tensioner and idlers for proper alignment, unusual wear grease build up or glazing			X		X	X						
Inspect straw chopper stage 2 drive belt, pulleys, tensioner and idlers for proper alignment, unusual wear grease build up or glazing			X		X	X						
Inspect shaker drive belt, pulleys, tensioner and idlers for proper alignment, unusual wear grease build up or glazing (Straw walker)			X		X	X						
Inspect deflector curtain (Straw walker)			X		X							
Inspect chaff spreader and/or unispreader(option) pump(s)			X	X	X							
Inspect steering pump (may or may not be equipped)				X	X							
Inspect engine transfer gearbox and seals for leakage				X								
Inspect main drive belt, pulley, tensioner, guards and idlers for proper alignment, unusual wear grease build up or glazing			X		X							
Inspect unloading engage drive belt, pulley, tensioner, guards and idlers for proper alignment, unusual wear grease build up or glazing			X		X							
Inspect straw chopper engage drive belt, pulley, tensioner, guards and idlers for proper alignment, unusual wear grease build up or glazing			X		X							
Inspect engagement cylinders for leakage				X	X							
Inspect feederhouse engagement clutch and hydraulic line				X	X							
Inspect the auger drive chain and sprockets for excessive wear and improper tension/alignment			X		X	X						
Inspect vertical unloading tube, flighting and inspection door(may or not be equipped)			X	X								
Inspect upper and lower unloading auger gearboxes for seal leakage, wear and grease			X	X	X							
Inspect the elbow of the unloading auger for cracks or broken hardware			X									
Inspect Left Side for damaged sensors and/or switches			X									

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CLEANING - SEPARATION AREA												
Inspect hydraulic motors for chaff spreader and ensure that the motors operate properly without any leakage				X	X							
Inspect the arm and the linkages of the chaff spreader for free movement and any damage			X		X							
Inspect rear axle steering cylinders and mud hog motors for leaks				X	X							
Check working light and external sieve open/close switches					X							
Inspect sieve linear adjustment motors, linkage, connectors and wiring			X		X							
Inspect the upper sieves and the lower sieves for any damaged fingers, damaged linkages or debris build up			X		X	X						
Inspect sieve pan rubber seals			X	X								
Inspect grain loss sensors/grainmeter(option), connectors and wiring--Run grain loss sensor test			X		X							
Inspect return pan linkages and megu bushings			X		X							
Drop Return Pan					X							
Rotors												
Inspect the flighting of the rotors and rotor tube for cracking, wear and damage			X		X							
Inspect the removable grates and the cage for wear and damage			X		X							
Inspect hardware attaching rotor feedhead and rotor cage -- Optional may need retorque or replacement of bolts			X									
Inspect and clean hydraulic/electric rotor cover flaps and linkages (Option)			X		X							
Straw Walkers					X							
Inspect the straw walkers for structural damage			X									
Inspect the straw walkers for openings that are plugged			X									
Inspect the straw walkers' bearings for excessive play			X									
Inspect the components of the Intensive Separation System or Multifinger Separation System (ISS or MSS) for excessive movement and wear			X		X	X					Machine equipped with ISS or MSS ?	
Inspect straw walkers to make sure they are not rubbing			X									

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RIGHT SIDE OF MACHINE												
Open/close of RH side shield			X		X							
Remove and inspect RH guards			X									
Inspect decals on LH side	X		X									
Inspect APS drive belt, pulleys, tensioners and idlers for proper alignment, unusual wear, grease build up or glazing			X		X	X						
Inspect the two-speed gearbox of the threshing cylinder for leaks around the seals and signs of overheating (option)				X	X						Two-Speed Gearbox? Yes or No	
Inspect threshing drive belt, pulleys, tensioners and idlers for proper alignment, unusual wear, grease build up or glazing			X		X	X						
Check linkages for free movement of Right Side concave open/close			X		X							
With concave fully closed, check Right Side concave clearance on the threshing cylinder (Refer to OMM)	Front Right _____mm Rear Right _____mm											
Inspect concave for debris build up, damage and/or excessive wear			X									
Inspect lubricating lines for major components on Right Side			X									
Inspect threshing drive variator belt and pulleys for proper alignment, unusual wear, grease build up glazing; also check rotary couling for hydraulic leaks			X		X	X						
Inspect the Right Side final drive shafts and couplings for unusual spline wear or damage			X									
Inspect Right Side tires rims/tracks for loose hardware or damaged hardware as well as excessive wear, damage and proper air pressure -- Tip: For MTS driveshafts disassemble and apply anit-seize (option)			X									
Inspect cleaning fan stage 1 drive belt, pulleys, tensioner and idlers for proper alignment, unusual wear grease build up or glazing			X		X	X						
Inspect cleaning fan stage 2 variator drive belt, pulleys and electric motor for proper alignment, unusual wear grease build up or glazing			X		X	X					Standard Speed reduction pulley? Yes or No	
Inspect cleaning fan stage 3 drive belt, pulleys, tensioner and idlers for proper alignment, unusual wear grease build up or glazing (JETSREAM Cleaning)			X		X	X					JETSREAM Speed reduction pulley? Yes or No	
Inspect drive, fan, hose and housing for rotary or planar screen chaff suction			X	X	X							

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Inspect Right Side cleaning fan and housing			X		X							
Inspect the conveyor chains of the clean grain and returns elevator for proper tension and wear, chains should just be snug on sprockets			X		X	X						
Inspect the lower housing of the clean grain elevator for excessive wear			X									
Inspect the sprockets of the clean grain and returns elevator for excessive wear and ensure that the sprockets are properly aligned			X									
Inspect the clean grain and the return paddles for excessive wear, cracks or misalignment NOTE: On 400/500 Series machines with AgLeader, 3 paddles may be removed	X		X								Paddles removed? Yes or No	
Inspect the sprockets of the clean grain and returns elevator for excessive wear and ensure that the sprockets are properly aligned			X									
Inspect the housing on the elevators for damage or holes			X									
Inspect hydraulic tensioner for leaks or if valve is installed (Option)			X	X	X						Hydraulic tensioning? Yes or No	
Inspect gate and Quantimeter/Returns monitoring components (moisture sensor, laser senders, recievers and eye glasses			X		X							
Inspect Right Side sieve pan bushings and rocker arm drive			X		X							
Inspect 3-D Sieve cannister/ hydraulic cylinder and lines for leakages and the linkages for damage				X	X							
Inspect fuel filter			X	X								
Inspect the drive belts of the ISS or MSS for cracks, glazing and proper tension.			X									
Inspect rotor stage 1 drive belt, pulleys, tensioner and idlers for proper alignment, unusual wear grease build up or glazing			X		X	X						
Inspect rotor step/variator drive belt, tensioners,idlers and pulleys for proper alignment, unusual wear, grease build up glazing; also check rotary couling for hydraulic leaks(option)			X		X	X						
Inspect rotor drive lubricating lines for damage or cracks			X	X								
Inspect Left Side for damaged sensors and/or switches			X									

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TOP - ENGINE COMPARTMENT / GRAIN TANK												
Inspect service ladder, frame and swivel for operation			X		X							
Inspect rotary screen or planar screen drive, housing, latches and seals			X		X							
Inspect oil cooler, condenser, radiator, charge air cooler and fuel cooler for damage or leaks			X	X	X							
Inspect the chain drive and components for the grain tank fill auger			X									
Inspect the upper housing of the clean grain elevator for excessive wear			X									
Inspect and the air filter intake screen			X	X								
Inspect the air filter/cleaner and hoses/pipes for leaks or plugging			X	X								
Inspect top side of rotors/walkers for damage or wear NOTE: Access through top door in front of engine			X									
Open/close engine compartment door					X							
Inspect the belts on the engine for cracks, glazing or improper tension			X	X								
Inspect the engine for fluid leaks				X								
Inspect engine mounts for damage or cracks			X									
Inspect the radiator cap, the hoses and the connections for leaks				X								
Inspect the clamps on the intake of the turbocharger for looseness or damage			X	X								
Check the exhaust system for broken clamps or a damaged muffler			X									
Check the fuel system for presence of water and drain water as needed											Water present? Yes or No	
Inspect aspirator hose on muffler			X	X								
Inspect hydraulic pumps and additional valves/hoses for any leaks or cracked seals				X	X							
Inspect electrical components for hydrostatic ground drive (EFA or GDM option)--Optional check/calibration/update			X		X		X					
Inspect mechanical cable control for hydrostatic ground drive (No EFA or GDM)--Optional check/calibration/update with CDS			X		X		X					

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Inspect the auger tube/boot of the unloading auger for wear or damage			X									
Inspect swing cylinder of the unloading auger and the hydrualic lines/valve for leaks or damage			X	X	X							
Inspect the grain tank fill auger and the cross augers/covers in the grain tank for excessive wear of damaged flighting			X		X	X						
Inspect the auger tube of the grain tank fill auger for excessive wear of holes			X									
Inspect the grain tank extensions for damage; ensure that the extensions operate properly and that the extensions do not bind during operation			X		X							
Inspect the electric motor/hydraulic valves for the grain tank extensions for proper operation			X	X	X						Electric or Hydraulic?	
Inspect the grain tank structure for distortion, cracks or holes			X									
Inspect grain sample chute			X									
Inspect gas strut(s)			X	X	X							
Inspect grain tank 70% and 100% full sensors and grain tank open/close actual value switch			X		X							
Remove Rotor/Impeller access doors			X									
Inspect the bolt, the bearing, the trunnion and the sealing plate on the front of the rotors for excessive play or damage			X	X	X							
Check rotor bearings to make sure they are full of grease and free of dirt/chaff build up			X	X	X							
Inspect impeller drum and wear plates(option) for excessive wear or damage			X									
Inspect components of the HVAC system including but not limited too, heater core, evaporator, condenser, a/c compressor and hoses			X	X	X							

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REAR - STRAW CHOPPER												
Inspect the rear rotor hubs and the busings for cracks or signs of separation			X									
Inspect the left and right rotor gearbox for leaks				X								
Inspect the shafts and couplings of the rotor gearbox for excessive wear			X									
Inspect the rotor discharge housing			X									
Inspect straw jam guard and straw jam actual value switch			X									
Inspect the knives on the chopper drum for excessive wear or damage			X									
Inspect the stationary knives for excessive wear or damage as well functionality in/out			X		X							
Inspect straw chopper stage 3 drive belt, pulleys, tensioners and idlers for proper alignment, unusual wear, grease build up or glazing			X		X	X						
Inspect the bearings of the straw chopper for excessive play, proper alignment and adequate grease(may or may not require greasing)			X	X	X							
Inspect straw chopper tailboard, chopper floor and unispreader/deflectors (Turbo Chop, Pro Chop) for wear or damage			X		X							
Inspect straw spreader and straw spreader components for wear or damage			X		X							

Comments

The After Harvest Inspection was properly carried out.

Date	Dealer signature
Date	Customer signature