

Inspection Report (Wheel Loader)

General Info

B&B Stock Number	A2830665
Year	2013
Make	John Deere
Model	644K
Serial Number	1DW644KZCDE654176
Hour Meter Reading	7,017 Hrs.
Previous Application (e.g., earth moving, mining, demolition, etc)	General Construction


Features and Configuration

Bucket	Yes
Bucket (yd3 / inches)	JRB 4.25 yd3
Auxiliary Hydraulics	Yes
Quick Coupler	Yes
Heat	Yes
A/C	Yes
Radio	Yes
Backup Camera	No
OMM (Operator & Maintenance Manual)	No
Telematics	No
Other Configuration Details / Notes	This machine has a front attachment, hydraulic actuated, quick coupler.

Exterior 360 Walkaround

360 Walkaround & Operating Video

Walkaround Photos & Operating Video





















Exterior Walkaround Photos	
Operating Video	Click to Download

General Appearance Inspection Points

General Appearance

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General Appearance Photos

Close-up Exterior Photos						Front L/S wheel fender was damaged and has been repaired with custom brackets.	
						Minor damage to the front R/S fender	The L/S engine compartment, lower access panel was slightly misaligned.
						Rear step is customized	
							

General Appearance Inspection Points

Inspection Rating Criteria	<table border="1"> <thead> <tr> <th data-bbox="531 1619 831 1659">Rating Scale</th> <th data-bbox="831 1619 1129 1659">Explanation</th> </tr> </thead> <tbody> <tr> <td data-bbox="531 1659 831 1722">1 - Service Required</td> <td data-bbox="831 1659 1129 1722">Requires immediate repairs to function as expected.</td> </tr> <tr> <td data-bbox="531 1722 831 1785">2 - Above Average Wear & Tear</td> <td data-bbox="831 1722 1129 1785">Exhibits greater wear than expected given age and usage. While operable, further diagnosis may be needed.</td> </tr> <tr> <td data-bbox="531 1785 831 1848">3 - Normal Wear & Tear</td> <td data-bbox="831 1785 1129 1848">Exhibits wear that is consistent with age and usage. Operation is normal, and as expected.</td> </tr> <tr> <td data-bbox="531 1848 831 1910">4 - Very Light or Minimal Wear</td> <td data-bbox="831 1848 1129 1910">Exhibits very minimal wear. Operation is better than expected given age and usage.</td> </tr> <tr> <td data-bbox="531 1910 831 1980">5 - Like New, Recently Replaced</td> <td data-bbox="831 1910 1129 1980">Excellent condition, free of visible wear or damage. Operation is within factory specifications.</td> </tr> </tbody> </table>	Rating Scale	Explanation	1 - Service Required	Requires immediate repairs to function as expected.	2 - Above Average Wear & Tear	Exhibits greater wear than expected given age and usage. While operable, further diagnosis may be needed.	3 - Normal Wear & Tear	Exhibits wear that is consistent with age and usage. Operation is normal, and as expected.	4 - Very Light or Minimal Wear	Exhibits very minimal wear. Operation is better than expected given age and usage.	5 - Like New, Recently Replaced	Excellent condition, free of visible wear or damage. Operation is within factory specifications.	
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Body Panels	3 - Normal Wear & Tear													

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Body Panel Condition	Some panel misalignment observed, Visible chipped paint or dents, Other (see comments)
Comments	Minor scuff marks are present throughout the exterior. The R/S cab window is broken. The L/S lower engine compartment access panel is misaligned.
Doors / Canopy Latches	3 - Normal Wear & Tear
Doors / Canopy Latches Condition	No visible damage
Steps / Ladders	3 - Normal Wear & Tear
Steps / Ladders Condition	Steps/ladders are fully intact and appear structurally sound, Other (see comments)
Comments	The rear L/S step has been modified.
Handrails	3 - Normal Wear & Tear
Handrails Condition	Handrails are fully intact and appear structurally sound
Glass	2 - Above Average Wear & Tear
Glass Condition	Glass is broken or shattered, Other (see comments)
Comments	R/S cab window is broken
Mirrors	3 - Normal Wear & Tear
Mirror Condition	Mirrors present and intact, no visible damage
Exterior Lights	3 - Normal Wear & Tear
Exterior Lights Condition	No visible damage, lighting system is operational
Overall Exterior	3 - Normal Wear & Tear
Comments	The exterior is in descent shape. Normal wear and tear scuff marks exist throughout the exterior. The rear, lower L/S engine compartment panel was slightly misaligned. The cabs R/S window is broken and missing.

Control Station Inspection Points

Control Station

Control Station Photos

Control Station Photos					
					
					

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Serial Number Plate	
Hour Meter/Odometer	
Control Station Type	Enclosed Cab (EROPS)
Option List	Electrohydraulic
Seat	3 - Normal Wear & Tear
Seat Condition	Seat(s) has major surface staining or tears, Seat(s) have minor surface staining or small tears, Seat adjustment controls move through full range of travel, Seat belt secures properly, Seat belt is intact and in good condition
Comments	The operator seat has no tears but has some noticeable stains.
Cabin Lights	3 - Normal Wear & Tear
Cabin Lights Condition	Cabin lights are installed with all light covers in place, bulbs are installed and working properly
Safety Lock Out / Stop	3 - Normal Wear & Tear
Safety Lock Out / Stop Condition	Safety lock out device is present, in good condition, and functional
Controls & Switches	3 - Normal Wear & Tear
Controls & Switches Condition	All switches are installed and functional
Hour Meter Activity	3 - Normal Wear & Tear







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Hour Meter Condition	Hour meter is functional and in good condition
Other Gauge Activity	3 - Normal Wear & Tear
Other Gauge Condition	All cockpit gauges are functional and in good condition
Heater & A/C	2 - Above Average Wear & Tear
Heater & A/C Condition	Only heat functionality works
Comments	The A/C temperature control knob is missing and I was unable to verify if the air conditioning system was functioning properly.
Travel Alarm	3 - Normal Wear & Tear
Travel Alarm Condition	Travel alarm is installed and functioning as expected
Horn	3 - Normal Wear & Tear
Horn Condition	Horn is installed and functioning as expected
Backup Camera	0
Control Station Overall Rating	3 - Normal Wear & Tear
Control Station Overall Condition	Good cabin appearance, solid floors, panels, and ceiling, Minor cosmetic wear to cabin surfaces, floors, panels, and ceiling
Comments	The operator station is in good shape. Normal wear is present throughout the interior and considering its age, its in good condition.





















Engine Inspection Points

Engine

Engine Compartment Photos

Engine Data Plate					
Engine Compartment Photos					
			Residual oil buildup		

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	    	<p>Residual oil buildup in the highlighted area (Rectangle) Minor exhaust leak in the highlighted area (Circle)</p> <p>Residual oil buildup was seen in both highlighted areas.</p> <p>The coolant level was low and was noticed at the reservoir.</p>		
	    	<p>Residual engine oil buildup was present at highlighted area.</p>		
	    			
	    			
Engine Type (Make, Model, Cylinders, Hp)	John Deere - 6068 - 6Cyl. - 225HP			
Emissions Tier	Tier 4i			
Engine Serial Number	N/A			
Engine Fuel Type	Diesel			
Blow-by (Visual Observation Check)	Yes			
Comments	Blowby was visible through the breather tube underneath the rear side of the machine.			
Unusual Noises (Upon Start-up, Idle, Shutdown)	No			
Engine Smoke (Upon Start-up, Idle, Shutdown)	No			
Engine Exhaust Color	Clear			
Battery	3 - Normal Wear & Tear			

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Battery Condition	Clean & dry appearance, tight connections
Radiator	3 - Normal Wear & Tear
Radiator Condition	Radiator fins & components appear to be in good working order, no signs of damage or leaks
Belts	3 - Normal Wear & Tear
Belt Condition	Belts appear in good condition & alignment with proper tension
Hoses	3 - Normal Wear & Tear
Hose Condition	Firm, pliant hoses with no signs of wear or leaks
Water Pump	3 - Normal Wear & Tear
Water Pump Condition	No unusual pump noises heard
Cooling System Leaks	No
Coolant Appearance	2 - Above Average Wear & Tear
Coolant Appearance Notes	Other (see comments)
Comments	The coolant level was too low to verify.
Oil Leaks	Yes
Oil Leak Notes	Dried oil seepages seen, Other (see comments)
Comments	No major, active oil leaks were seen during the inspection. Signs of oil leaks were noticeable from the residual oil buildup area around the engine block.
Oil Appearance	3 - Normal Wear & Tear
Oil Appearance Notes	Appropriate oil level, Clean oil appearance, no signs of cross contamination, Other (see comments)
Comments	Excessive blowby was seen at the breather hose and should be further investigated; An engine oil service is recommended based on the last service performed (per date labeled on filters).
Fuel Leaks	No
Equipped with DPF (Diesel Particulate Filter)	Yes
DPF Condition	3 - Normal Wear & Tear
DPF Condition Notes	Filter housing is intact with no signs of damage or malfunction, DPF indicator is not illuminated
Requires DEF (Diesel Exhaust Fluid)	No
Overall Engine Rating	2 - Above Average Wear & Tear
Overall Engine Appearance	Dusty & dry, Areas of dried seepage seen on engine hoses & components
Overall Engine Comments	The engine was running okay with no abnormal sounds heard at low RPM's, high RPM's and while it was running under load. Excessive blowby was seen and should be further inspected for possible engine issues. Signs of possible leaks were seen around the engine block. An active code for low coolant level was visible through the operators monitoring panel.

Drivetrain Inspection Points

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Drivetrain

Drivetrain Inspection Points

Drivetrain Photos	    
	    
	    
	
Hydrostatic Transmission?	No
Transmission Info (Make/Model/Speeds)	John Deere - Powershift - 4 Speed - 4WD
Drive Type	4WD
Transmission Components	3 - Normal Wear & Tear
Transmission Condition	Good forward and reverse function, No unusual noises or vibrations
Parking Brake	3 - Normal Wear & Tear
Parking Brake Function	Good brake function
Overall Drivetrain Rating	3 - Normal Wear & Tear
Overall Drivetrain Comments	Overall the machine traveled well in both directions with no obvious signs of operational issues.

Chassis Inspection Points

Chassis Photos	    
	    
	    
Frame	3 - Normal Wear & Tear




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Comments	.
Stance	3 - Normal Wear & Tear
Front Axle Appearance	3 - Normal Wear & Tear
Rear Axle Appearance	3 - Normal Wear & Tear
Articulating Center Pin Appearance	3 - Normal Wear & Tear
Lift Arm	3 - Normal Wear & Tear
Chassis to Arm Pins	3 - Normal Wear & Tear
Tilt Linkage	3 - Normal Wear & Tear
Tilt Linkage Pins and Bushings	3 - Normal Wear & Tear
Quick Coupler	3 - Normal Wear & Tear
Quick Coupler to Arms Pins	3 - Normal Wear & Tear
Overall Chassis	3 - Normal Wear & Tear
Overall Chassis Comments	The machine frame is in solid shape with no obvious signs of issues. No excess play seen in the front loader linkages.


Wheels & Tires Inspection Points

Wheels & Tires

Wheels & Tires Inspection Points

Wheels & Hubs	3 - Normal Wear & Tear
Wheel Seal Leaks	No
Tire Brand	Various Brands
Tire Size	23.5/R25
Front Left Tire - Ratio Remaining	70%
Front Left Tire Photos	
Front Right Tire - Ratio Remaining	70%
Front Right Tire Photos	
Rear Right Tire - Ratio Remaining	10%
Rear Right Tire Photos	
Rear Left Tire - Ratio Remaining	10%





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Rear Left Tire Photos		
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Hydraulics Overall Inspection Points

Hydraulics Overall

Hydraulic System Inspection Points

Hydraulic System Photos	   	
Wet or Damp Hydraulic Lines / Fittings	No	
Hydraulic Lines/Fittings	3 - Normal Wear & Tear	
Hydraulic Lines / Fittings Condition	Hydraulic lines & fittings are clean and in good condition	
Hydraulic Pump(s)	3 - Normal Wear & Tear	
Unusual Noises	No	
Hydraulic Pump Notes	No unusual noises heard during operation	

Hydraulic Cylinder Inspection Points


Hydraulic Cylinder Photos	    	<p>R/S Steer cylinder has dried up hyd. oil buildup around cylinder</p> <p>L/S Steer Cylinder has hyd. oil buildup at and around the rod seal.</p>	
	  		
Mounting Pins	3 - Normal Wear & Tear		
Cylinder Oil Leaks	Yes		
Comments	No major active leaks were observed. Residual oil buildup accumulated at and around the cylinder rod seals were notated.		
Hydraulic System Overall	3 - Normal Wear & Tear		
Comments	The hydraulics were working well and no signs of problems were observed during the inspection.		

Attachment Inspection Points

Attachments

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Additional Attachments

Attachment Type	GP Bucket & Quick Coupler				
Attachment Make	JRB				
Attachment Size / Specs	N/A				
Attachment Condition	3 - Normal Wear & Tear				
Comments	Bucket and Quick Coupler are in good working condition.				
Attachment Photos					

Functional Test

Functionality Assessment

Functionality Assessment

Engine	2 - Above Average Wear & Tear
Comments	The engines' excessive blowby is why it's rated a 2
Transmission/Drivetrain	3 - Normal Wear & Tear
Travel (Forward/Reverse/Steering)	3 - Normal Wear & Tear
Brakes	3 - Normal Wear & Tear
Hydraulic System	3 - Normal Wear & Tear
Electric Operating System	3 - Normal Wear & Tear
Controls	3 - Normal Wear & Tear
Safety Systems	3 - Normal Wear & Tear
Core Functions	3 - Normal Wear & Tear
Attachments	3 - Normal Wear & Tear
Overall Functional Test Comments	The machine fired right up and worked well when traveling in forward and in reverse. It steered fine and the hydraulics were working as expected.

Overall Assessment

Overall Assessment

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	5 - Like New, Recently Replaced	Excellent condition, free of visible wear or damage. Operation is within factory specifications.
Exterior Rating	3 - Normal Wear & Tear	
Interior Rating	3 - Normal Wear & Tear	
Safety Rating	3 - Normal Wear & Tear	
Quality Rating	3 - Normal Wear & Tear	
Functionality Rating	3 - Normal Wear & Tear	
Overall Rating	3 - Normal Wear & Tear	
What's Great About the Machine	This wheel loader turned on and was operating okay with no hesitation. The front tires have plenty of life left, and the hydraulics were operating well. This machine is equipped with a quick coupler. No major active leaks were observed from any of the main components throughout the machine.	
What Needs Work	The rear tires will need to be replaced soon. The R/S Cab window is broken. The engine was low on coolant and had an active code in relation to it. The engine has excessive blowby coming from the breather tube underneath the machine and should be further inspected to determine as to why its occurring.	
Date/Time	02-08-2024	
Inspector Name	Mario Ramirez	