

Butler Machinery Company

Motor Grader

Date: 7/24/2014	Make: Cat
Inspector Name: Mark Orgaard	Model: 160H
Customers Name: Dennis Drewes	Machine S/N: 9EJ00586 <i>Picture of S/N required</i>
Salesman: Kevin Sikich	***Photo must be legible or survey will not be processed***
Machine Location: Falkirk ND	Year: 1998
Total Machine Hours:	Pictures Taken Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hour Meter Reading: 10865	S.O.S Taken Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
ECM Hour Reading: 10991	Product Status Report Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	Notes:

Motor Grader Configuration

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> EROPS | <input type="checkbox"/> OROPS | <input type="checkbox"/> Cab-Non ROPS |
| <input checked="" type="checkbox"/> Air Conditioner | <input type="checkbox"/> High Profile Cab | <input checked="" type="checkbox"/> Low Profile Cab |
| <input checked="" type="checkbox"/> Push block | <input type="checkbox"/> Snow Plow | <input type="checkbox"/> Snow Wing |
| <input checked="" type="checkbox"/> Side Shift | <input checked="" type="checkbox"/> Tip Control | <input type="checkbox"/> Scarifier |
| <input checked="" type="checkbox"/> Ripper | <input type="checkbox"/> Variable Horsepower | <input type="checkbox"/> Lift Cyl Accumulators |
| <input type="checkbox"/> All Wheel Drive | <input checked="" type="checkbox"/> Diff Lock | <input type="checkbox"/> Front Lift Group |
| <input type="checkbox"/> Anti-Theft System | <input checked="" type="checkbox"/> Slip clutch | <input type="checkbox"/> Product Link |
| <input checked="" type="checkbox"/> Air Dryer | <input type="checkbox"/> CE Plate | |

General Appearance

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							Comments
	N	VG	G	F	P	NA	
Radiator Grill & Shroud			X				
Eng Enclose Hood / Stack			X				
Fender						X	
Fuel Tank			X				
Crankcase Guard / Trans Guard						X	
Draw Bar			X				
Front Frame			X				
Rear Frame			X				
Bumper						X	
Counterweight						X	
Pre-Cleaner Bowl						X	
Cab or Canopy			X				

	N	VG	G	F	P	NA	Comments
Steps & Ladders			X				
Battery Box & Covers			X				
Grab Irons			X				
Paint			X				
Sheet Metal			X				
Overall Appearance			X				
Comments:							
							Estimated Cost Of Repairs:

Safety Items

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Horn			X				
Back up Alarm				X			Backup alarm is not very loud
ROPS					X		Holes drilled in the right rear ROPS
Brakes & Parking Brake Operation			X				
Seat Belt		X					Mar-14
Safety Decals in Place & Legible	Yes	<input checked="" type="checkbox"/>		No	<input type="checkbox"/>		
Comments:							
							Estimated Cost Of Repairs: \$200.00

Gauges, Operator Station, Console

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Dash Console					X		Console does not lock
Meter			X				
Gauges			X				
Switches			X				
Windshield Wipers				X			Washer do not work
Heater			X				
Air Conditioner			X				
Interior Lights			X				
Seat Cushion & Arm Rest			X				

	N	VG	G	F	P	NA	Comments
Floor Boards & Floor Mats			X				
EMS/CMS Panel / Warnings Lights			X				
Door & Door Latches			X				
Pans/Guards			X				
Glass & Mirrors			X				
Current Parts Manual	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
Current Safety Manual	Yes	<input checked="" type="checkbox"/>		No	<input type="checkbox"/>		
Current O&MM	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
ROPS Certification Plate	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
Comments:							
							Estimated Cost Of Repairs: \$300.00

Engine

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Operating Condition			X				
Turbocharger / Blower	X						Customer said it was just changed
Fuel Injection System				X			Back side of governor is collecting dirt
Engine Supports			X				
Air Cleaners				X			Indicator is cloudy
Exhaust & Muffler			X				
Oil Leaks	Yes	<input checked="" type="checkbox"/>		No	<input type="checkbox"/>		Dirt collecting around starter, Oil filter lines collecting dirt
Blow By	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
Knocking	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
Compression in Radiator	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
Water in Oil	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
Fluid Levels Ok	Yes	<input checked="" type="checkbox"/>		No	<input type="checkbox"/>		
EPA Decal	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
Anti-Freeze Color	Red						
Oil Pressure	Ok						
Exhaust Smoke	Ok						
Engine Make & Model	Cat 3306						
Comments:							
							Estimated Cost Of Repairs: \$1,800.00

Cooling System

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments

	N	VG	G	F	P	NA	Comments
Radiator			X				
Coolers			X				
Hoses			X				
Water Pump			X				
Fan			X				
Fan Drive/ Pulleys			X				
Belts				X			AC belt is loose and worn
Radiator Type	Std	<input checked="" type="checkbox"/>	FC	<input type="checkbox"/>	MRM		
Worn Pulleys	Yes	<input checked="" type="checkbox"/>	No				Alternator pulley is worn
Leaks	Yes		No	<input checked="" type="checkbox"/>			
Comments:							
							Estimated Cost Of Repairs: \$750.00

Electrical, Starting and Charging System

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Batteries / Cables			X				
Starter			X				
Alternator			X				
Wiring			X				
Pre-Heater / Glow Plugs						X	
Lighting				X			Left lower light lens cracked, Tail lights not working
Block Heater	Yes	<input checked="" type="checkbox"/>	No				
Ether Aid	Yes	<input checked="" type="checkbox"/>	No				
Comments:							
							Estimated Cost Of Repairs: \$200.00

Transmission

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Operating Condition			X				
Case			X				
Seal			X				
Torque Converter						X	
Universal Joints			X				

	N	VG	G	F	P	NA	Comments
Temp/Pressure Gauges			X				
Drive Shaft			X				
Transmission Controls			X				
Lines & Fittings			X				
Cooler			X				
Pump			X				
Transmission - Reverse Shifts			X				
Transmission - Forward Shifts			X				
Transmission - Noisy	Yes	<input type="checkbox"/>		No	<input checked="" type="checkbox"/>		
Leaks	Yes	<input checked="" type="checkbox"/>		No	<input type="checkbox"/>		Control valve collected with dirt
How Many Speeds Forward & Reverse	8 Forward 6 Reverse						
Transmission Type	Powershift, Auto shift						
Comments:							
							Estimated Cost Of Repairs: \$1,000.00

Steering

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Front Axle			X				
Steering Linkage			X				
Steering Gear Box						X	
Tie Rod & Rod Ends			X				
Articulate P & B				X			Small amount of play in articulation cylinders
Steering Valves & Pump			X				
Steering Cylinder			X				
King Pins			X				
Wheel Lean Cylinder			X				
Supplemental Steering						X	
Steering Wheel Tilt/Extend			X				
Comments:							
							Estimated Cost Of Repairs: \$600.00

Brakes

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Operating Condition			X				
Brake Drums/ Rotors						X	
Control Valve			X				
Lines & Fittings			X				
Master Cylinder						X	
Compressor			X				
Pedal			X				
Parking Brake			X				
Hyd Pump			X				
Master Cylinder Reservoir Level	Overfull		Ok		Low		
Holding in What Gear	1st			3rd			
	2nd			4th			
Hold in Park	Yes	x		No			
Leaks	Yes			No	x		
Comments:							
						Estimated Cost Of Repairs:	

Tandems & Differential

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Wheel Lugs & Rims			X				
Tandems			X				
Differential			X				
Differential Lock & Does it Hold			X				
Leaks	Yes			No	x		
Comments:							
						Estimated Cost Of Repairs:	

Hydraulics

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Operating Condition			X				
Tank			X				
Pump & Valves				X			Hydraulic valves leaking at levers
Hose & Lines			X				

	N	VG	G	F	P	NA	Comments
Control Linkage			X				
Circle Side Shift Cylinder & Lock			X				
Lift Cylinders			X				
Tip Cylinder			X				
Turn Drive Box			X				
Blade Float Circuit			X				
Leaks	Yes	X		No			Hydraulic valves leaking at levers
No. of Hyd Control Valves	4 left 7 right						
Comments:							
							Estimated Cost Of Repairs: \$2,000.00

Circle & Blade

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Operating Condition			X				
Circle, Shoes & Plates				X			
Circle Frame			X				
Circle Teeth			X				
Circle Drive box & Pinion					X		Pinion teeth worn to points
Blade Side Shift Cylinder			X				
Moldboard Face			X				
Cutting Edge Condition				X			Worn in center
Needs Adjustment	Yes	X		No			Center mold board bracket very loose
Frog Worn	Yes	X		No			Worn in the center
Blade Size	14 foot 2 foot right side extension						
Comments:							
							Estimated Cost Of Repairs: \$2,500.00

Ripper & Scarifier

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Operating Condition		X					
Pins & Bushings		X					
Brackets & Studs		X					
Beams & Frame		X					

	N	VG	G	F	P	NA	Comments
Shanks & Tips		X					
Lines & Fittings		X					
Scar. Lift Arms & Lift Cylinders						X	
Ripper Cylinder		X					
Comments:							
Estimated Cost Of Repairs:							

Snow Wing, Lift Group & Plow

Condition: N=New VG=Very Good G=Good F=Fair P=Poor NA=Not Applicable							
	N	VG	G	F	P	NA	Comments
Operating Condition						X	
Wing Cylinders						X	
Beams & Frame						X	
Rear Post						X	
Snow Wing Condition & Model						X	
Lift Group Condition & Model						X	
Lift Group Cylinders						X	
Plow Condition & Model						X	
Other Attachment & Type			X				Right side blade extension
Estimated Cost Of Repairs:							

Tires

	Bias	Radial		Star Rating/ Load Rating	Depth in 1/32	% Remaining	Cut, Abrasions
Right Front	Goodyear	Unisteel G2	Ply	One star		0%	No tread left on outside
Right Center	Michelin	X Snoplus M+S L2T		One star	21/32	70%	Weather check cracks between tread
Right Rear	Michelin	X Snoplus M+S L2T		One star	20/32	67%	Weather check cracks between tread
Left Front	Goodyear	Unisteel G2		One star	9/32	5%	Cut in sidewall, Weathered
Left Center	Michelin	X Snoplus M+S L2T		One star	21/32	70%	Weather check cracks between tread
Left Rear	Michelin	X Snoplus M+S L2T		One star	20/32	67%	Weather check cracks between tread
Recapped	Yes	No	X				
Tire Size	14.00R24						
Comments:							
Estimated Cost Of Repairs:							