

# Motor Graders Inspection Report

Inspection Date: 7/19/2021

MACHINE DETAILS			
Manufacturer: AA		Model: 140H	
Year: 2006		S/N: 0APM	
Eng S/N: 3PD17903		Trans S/N: EDB05769	
SMU/Hrs: 12400		Hours Date: 7/19/2021	
Last Schedule:		Last CTS:	
Date Oil Sample Sent to Lab: 7/22/2021		Last PM: 5/14/2021	
Oil Sample: Engine, Trans, Hydraulic		Recommendations:	
MOTOR GRADER CONFIGURATION			
Advanced Control Joystick:	No	Stable Blade:	No
Technology Radio:	No	Cab:	
Drive:		Product Link:	
Auto Articulation:	No	ARO/GPS Ready:	No
Heater:	Yes	Blade Length:	14 FT
Pushblock:	Yes	Side Shift & Tip Control:	Yes
Circle Clutch:	Yes	Engine Tier Rating:	EPA Tier Two
# Ripper Shanks:	6	Tire Size:	17.5R25
Comments:			
GENERAL APPEARANCE			
	CODE	REMARKS	
Radiator Grill & Shroud	Good		
Engine Enclosure Hood / Stack	Good		
Fuel Tank	Good		
Crankcase Guard / Battery Box	Good		
Draw Bar	Fair	Drawbar clunks when changing direction or speed needs adjusted.	
Main Frame Welds	Good		
Front Frame	Good		
Rear Frame	Good		
Counterweight	Good		
Pre-Cleaner Bowl	Good		
Cab	Good		
Canopy	Not Applicable		
Steps / Ladder	Fair	Left ladder top brackets bent and has incorrect narrow bottom step mounted in middle position on ladder.	
Grab Irons	Good		
Paint	Good		
Sheet Metal	Good		
S.O.S. Taken	Yes	Engine, Transmission and Hydraulic	
Cleaning Required	Yes	Clean machine and detail cab.	
Notes			
         			
SAFETY ITEMS			
	CODE	REMARKS	
Safety Decals In Place	Yes		
Safety Decals Legible	Yes		
Articulation Safety Pin	Good		
ROPS	Good		
Non-ROPS	Not Applicable		
Glass / Mirrors	Good		
Seat Belt	Good	Seat belt is functional but has no date tag.	
Back-up Alarm	Good		
Horn	Good		
Parking Brake	Good		
Brake Hold	Good		
Notes			
 			
GAUGES, OPERATOR STATION, CONSOLE			
	CODE	REMARKS	
Dash Console	Good		
Meter	Good	12,364 hours	
Gauges	Good		

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Switches	Good	
Wipers	Good	
Air Conditioner	Poor	A/C compressor pulley is seized and missing belt is broken.
Heater	Good	
Interior Lights	Good	
Radio / Speakers	Good	
Seat Cushions / Arm Rests	Fair	Seat slider blocks are worn. Seat is a little loose.
Floor Boards	Good	
EMS Panel / Warnings	Fair	Has service codes for transmission temperature sensor and throttle lock lamp bulb.
Doors / Door Latches	Good	
Parts Book	No	
O&MM	No	
Safety Manual	No	
ROPS Cert Plate	Yes	
Notes		



## ENGINE

	CODE	REMARKS
Oil Leaks	No	
Blow By	No	
Knocking	No	
Compression In Radiator	No	
Water In Oil	No	
Fluid Levels OK?	Yes	
Anti-Freeze Color	Red	
Oil Press (H/L/N)	Normal	
Smoke (B/D/L/W)	Normal	
Operating Condition	Good	
Turbocharger / Blower	Good	
Fuel Injection System	Good	
Governor	Good	
Engine Supports	Good	
Air Cleaners	Good	
Exhaust / Muffler	Good	
Oil Filter Condition (Cut)	Not Applicable	
Notes		



## COOLING SYSTEM

	CODE	REMARKS
Radiator	Good	
Coolers	Good	
Hoses	Good	
Water Pump	Good	
Fan	Good	
Fan Drive	Good	
Belts / Pulleys	Poor	Belt is broken due to failed A/C compressor. See Operator Station.
Notes		
Leaks	No	
Notes		







## ELECTRICAL, STARTING AND CHARGING SYSTEM


	CODE	REMARKS
Batteries / Cables	Good	
Starter	Good	
Alternator	Good	Alternator battery light on due to broken belt. See operator station.
Wiring	Good	
Pre-Heater	NI	
Lighting	Good	All lights functional.
Notes		
Rotating Beacon	No	





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Signal Lights	Yes	
Warning Lights	Yes	



















### TRANSMISSION

	CODE	REMARKS
Transmission - Type	Powershift	
Case	Good	
Controls	Good	
Seals	Poor	Transmission filter adapter hoses are leaking. Transmission suction hose from differential is leaking.
Valves	Good	
Universal Joints	Good	
Transmission - Forward	Good	
Transmission - Reverse	Good	
Transmission Noisy	No	
Leaks	Yes	See above.
Notes	Does not have transmission guard.	

### STEERING

	CODE	REMARKS
Front Axle	Good	
Steering Linkage	Good	
Steering Gear Box	Not Applicable	
Tie Rods & Ends	Good	
Articulate P & B	Good	
Pumps & Valves	Good	
Steering Cylinders	Good	
Lines / Fittings	Good	
King Pins	Good	
Notes		

### BRAKES

	CODE	REMARKS
Type, (Pedal, Lever)	Pedal	
Type, Wet, Dry	Wet	
Control Valve	Good	
Lines	Good	
Master Cylinder	Not Applicable	
Compressor	Good	
Brake Linkage	Good	
Leaks	Good	
Notes		




### TANDEMS

	CODE	REMARKS
Wheel Lugs & Rims	Good	
Tandams	Fair	Left side tandem has some oil residue on inside need to clean and check for leak.
Planetaries / Diff	Good	
Housings	Good	
Axle Bolts	Good	
Diff Lock	Good	
Notes		



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## HYDRAULICS

	CODE	REMARKS
Operating Condition	Good	
Tank	Good	
Pumps & Valves	Good	
Hoses / Lines	Good	
Linkage	Good	
Lift Cylinders	Fair	Lift cylinder trunnion inserts are worn and have some play.
Side Shift Cylinder	Good	
Tip Cylinder	Good	
Center Shift Cylinder	Fair	Inserts for trunnions are worn and have some play.
Articulation Cylinders	Good	
Wheel Lean Cylinder	Good	
Circle / Teeth	Good	
Circle Drive Box	Good	
Circle Shoes & Plates	Fair	Circle wear strips still have some life but circle is out of adjustment for finish type work will need adjusted and tightened up.
Circle A Frame	Good	
Scarifier Lift Arms & Gearbox	Not Applicable	
Ripper/Scarifier Cylinder	Good	
Notes		



## BLADE

	CODE	REMARKS
Face / Moldboard	Good	
Blade Brackets	Good	
Wear Strips / Plates	Fair	Slide brass has some play needs adjusted/replaced.
Blade Guard	Good	
Cutting Edges	Good	
End Bits	Good	
Overlays	Not Applicable	
Notes		



## TIRES


	MAKE S/N	TREAD DEPTH 1/32"	% LIFE LEFT	RECAPPED	TREAD CUT/CHUNKS	SIDE CUTS SECTIONS
Right Front	Firestone	27.00	79.41	No		No
Right Center	Firestone	26.00	76.47	No		No
Right Rear	Firestone	26.00	76.47	No		No
Left Rear	Firestone	29.00	85.29	No		No
Left Center	Firestone	25.00	73.53	No		No
Left Front	Firestone	26.00	76.47	No		No
Tire Size	17.5R25					
Average Life Left	77.94					
Spare	No					
Notes	Firestone Versabuilt					
Tires Needed						



## SERVICE

	CODE	REMARKS
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Service Needed	Almost due for next PM
	

## GENERAL REPAIRS AND REMARKS

Repairs Needed: Left ladder bracket bent, Left ladder has incorrect step plate, Transmission filter hoses leaking, A/C compressor seized and serpentine belt missing, Service does, Adjust drawbar ball, Circle wear strips worn, Seat slider blocks, Cleaning.

General comments: Machine is complete and operational.

