



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:1a Inspection of cab & interior seats, lights, windows/mirrors, cab mounts; check fluid levels, serpentine belts

000-000-000

Completed Date: 8/2/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 2/2/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Clean floor mats of loose dirt and any debris around treadle valve	Satisfactory
2. Lubricate pedal hinge pins & plungers	Completed
3. Grease steering column	Completed
4. Grease driver's seat sliders, if applicable.	Completed
5. Inspect/Replace cabin air filter, if used	Defective (Cabin hvac Filter is missing, and gunk is accumulating on fins. Photos.)
6. Cab interior lights 9.10(4)	Defective (Several bulbs out, missing. AI created to order.)
7. Check mounting of in-cab equipment (SCBA, Irons, etc) 8.14.6	Satisfactory
8. Seats (rips, sliders) & belts (lockup, buckle) 8.14.2 & 6.2.2(1)	Satisfactory (Note defect on #2 seat (c.w. From officer) belt is being fixed on another so.)
9. Driver seat belt (tears/melted/buckles) is OOS 6.2.2(2)	Defective (Seat belt has slight damage (photos) from getting caught in door when shutting. This is because it doesn't retract fully by itself (weak wind up spring). Just writing up fy, not oos. Maybe a simple metal plate at buckle (photo)?)
10. Windows & mirrors operate easily (quickly, if powered) 8.14.1	Defective (Rear left window missing crank (photo), vice grip used looks like it's been working just fine. Rear right crank knob makeshift part and loose.)
11. View-obstructing cracks in windshield/mirrors is OOS 6.2.1(1-2)	Satisfactory
12. Record intake air vacuum 8.7.5 & 6.4.2(1)	N/A (No in cab indicator, or under cab.)
13. Cab mounts: airbags(leaks), latches(cracks/loose) 6.2.3(2)	Satisfactory (Engine fan blows up dogbox cover (photo), and blows air thru trans shifter.)
14. Insulation/acoustic panels (hood/cab/firewall): loose or tears	Defective (Engine fan blows up dogbox cover (photo), and blows air thru trans shifter. Under cab it is really deteriorating badly, with pieces starting to stick to radiator. This needs to be fixed now.); Defect Corrected On: 8/14/2024
15. Engine oil level; visual check for coolant/fuel contamination	Satisfactory
16. Condition of dipstick grommet	N/A (Transmission dipstick already recorded in SO-1162, AI 2)
17. Power steering fluid level 8.11.3	Satisfactory
18. Fan drive/clutch: check for leaks 8.5.9	N/A (Not clutched.)
19. Radiator & aftercooler: mounting & fan-shroud clearance 8.7.3	Satisfactory
20. Air induction hoses: cracks/leaks 8.7.4	Satisfactory
21. Serpentine belts: wear status & tracking 8.5.6 & 8.11.5	Satisfactory
22. Steer fluid leak of class 3 is OOS 8.11.5 & 6.3.1(11)	Satisfactory
23. Inspect EGR tubes & hoses for leakage or chafing	N/A
24. Additional cab inspection notes, if any	N/A

Technician: Peter Fox Digital Signature: Peter Fox Date: 8/2/2024



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PM:1b Inspection of cab latches, tilt hinges, hydraulic system

Completed Date: 8/2/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/2/2025

Service Order: SO-1207

PM (Hours):

Procedure	Result
1. Test cab latched switch 8.14.7.1	No 'cab latched' sensors/switches used
2. Cab support safety bar test 8.14.7.1	Tested & supports weight of the cab
3. Cab support safety bar actuator/latch 8.14.7.1	Latching and actuating hardware OK
4. Tilt fluid leaks- cylinders, hoses, latches, pump 8.14.7.1	Satisfactory
5. Cab latch nader pins & brackets 8.14.5	Loose- dry rotting or missing rubber cushion
6. Cab Latches	Spring return latches: operate smoothly by hand
7. Cab tilt fluid 8.14.7.1	Full, does not aspirate air @ full tilt
8. Split cab inflatable seal 8.14.7.1	Not used
9. Additional cab tilt notes, if any	N/A (Nader pin brackets loose, but it's latching securely. Due to surrounding brackets it can't rotate which is good.)

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PM:1a Inspection & pressure test of cooling system 042-000-000

Completed Date: 8/2/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 2/2/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Coolant level & contamination, visual check 6.5.1(2)	Satisfactory (Full)
2. Record Coolant PH level 8.5.7	Satisfactory (8.0)
3. freeze point, °F	Satisfactory (-60°F)
4. Record Coolant Nitrite level	Defective (>200. Green conventional coolant is apparent in use, although we filled it with yellow extended life coolant. Filters for extended life last several years, while conventional filters need replacing annually. Consider switching to extended.)
5. Record Coolant Molybdate level	N/A
6. What test strip(s) were used?	N/A (3001MR, 1550)
7. Conventional or Extended life coolant in use?	N/A (Mixture.)
8. Inspect Radiator Cap for cracking seals or sticking open	Satisfactory (Pressure tested and held to rating of 15 psi exactly.)
9. Pressure test cooling system to cap PSI 8.5.5	15 PSI
10. Inspect cooling hoses & pump for leaks 8.5.3, 8.5.5, 6.5.2(2)	Satisfactory (No measurable drop during test.)
11. Engine cooling heat exchanger 8.5.10	Secure- not leaking or deformed
12. If needed, clean radiator with air 8.5.2, 6.5.2(1,3,4)	Radiator clean
13. Inspect transmission cooler 8.9.11, 6.6.1(3)	Secure w/ unobstructed air flow- no leaks or visible damage
14. Additional cooling system notes, if any	N/A

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PM:1c Caterpillar 3176B, 3406E, C10 & C12 Coolant, filters

Completed Date: 8/9/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,159 Miles (8/7/2024)

Engine Hours: 10,168 Hours (8/7/2024)

Next Due: 8/14/2025; 10,468 Hours

Service Order: SO-1207

PM (Hours):

Procedure	Result
1. Replace air cleaner if intake restriction near 20	Satisfactory (No air restriction gauge. Filter was visually inspected and appeared clean.)
2. Drain water/sediment fuel separator	Satisfactory
3. Replace secondary/final fuel filter	Satisfactory
4. Replace coolant filter	Satisfactory (Filter replaced)
5. Clean crankcase breather	Satisfactory
6. Check/clean cylinder head ground stud	Satisfactory (Inspected)

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Digital Signature: Peter Fox

Date: 8/9/2024



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PM:1f Inspection of Chassis, Suspension, Steering, pump

Completed Date: 8/2/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 2/14/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Inspect mud flaps	Satisfactory
2. Lateral displacement of any axle 8.2.3	Satisfactory
3. Inspect frame (rust/damage/loose parts) 8.2.1	Satisfactory
4. Document any body mounting deficiencies 1910.6.2.3(1)	Defective (Several broken rivets that mount the rear compartments to the frame)
5. Document any tank leaks or mounting deficiencies 10.3 & 6.9.2(6)	Satisfactory
6. Inspect spring leaves 8.2.2(1)	Satisfactory
7. Air suspension and mounts (if applicable) 8.2.2(2)	N/A
8. Equalizer beams & torque arms 8.2.2 & 6.3.1(6)	N/A
9. Shock absorbers	Satisfactory
10. Check On-Spot chainwheel bearings & arm bearings for excessive play	Satisfactory
11. Inspect On-Spot chain link wear & count	Satisfactory
12. Inspect all axles: mounting or leaks 8.3.1(4,5) & 6.3.1(9)	Satisfactory
13. Suspension defects are OOS criteria 8.2.2 & 6.3.1(6)	Satisfactory
14. Driveshaft: circlips, cap & flange bolts, slip joint play, carriers 8.10.1	Satisfactory
15. Structural ball joints 8.3	Satisfactory
16. Fuel tank mounting & breather 8.6.2 & 6.4.2(2)	Satisfactory
17. Pump mounting to chassis 10.2.1	Satisfactory
18. Pump gearbox mounting & leaks 10.2.4.1 & 6.9.1(4)	Satisfactory
19. Exhaust: Leaks (soot), secure (rust holes/mounting) 8.8.2 & 6.4.2(3)	Satisfactory
20. Exhaust sensors & wiring for heat or other damage	Satisfactory
21. Inspect air dryer 8.12.10.2	Satisfactory
22. Inspect transmission breather	Satisfactory
23. Transmission mounts & leaks 8.9.1 & 6.6.1(3)	Satisfactory
24. Engine mounts & leaks 8.4.2 & 6.4.1(2,4)	Satisfactory
25. Vibration Damper Inspection	Satisfactory (Peter: look closely. Recent breaks on engine brackets make me suspect damper)
26. Transmission cooler (if used) 8.9.11 & 6.6.1(3)	Satisfactory
27. Front wheels hitting anything at full steer? 8.11.2.1	Satisfactory
28. Steering gearbox 8.11.2.3.1 & 49 CFR Appendix-A-to-Part-396 7.d.	Satisfactory
29. Visually inspect steering mechanism 49 CFR Appendix-A-to-Part-396 7.h. & 7.f.	Satisfactory

Technician: Adrian Shirk

Digital Signature: Adrian Shirk

Date: 8/2/2024



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PM:1g Grease/lubrication of Chassis, Suspension, Steering

Completed Date: 8/2/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 2/2/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Grease rear axle(s) spring hanger shackle & spring pins 8.2.2	N/A
2. Grease slack adjusters & camshafts, rear axles	Completed
3. Grease torque rod ball studs, if greaseable	N/A
4. Grease On-Spot arm bearings	Completed
5. Grease On-Spot ball joints	N/A
6. Grease Driveshaft U-joints 8.10.1	Completed
7. Grease Driveshaft slip joints 8.10.1	Greased- until grease is extruding from yoke hole AND slip joint seal
8. Grease front axle spring hanger shackle & spring pins 8.2.2	Completed
9. Grease slack adjusters and camshafts, front axle	Completed
10. Grease cab tilt or hood hinges	Greased
11. Grease steering column/shaft & U-joints 8.11.4	Completed
12. Inspect & grease king pin 8.3.1(2)	Greased top & bottom until all old grease is purged
13. Grease steer cylinder, tie rod ends, & drag link 8.11.4	Greased all joints until all old grease is purged PRN
14. Grease steering gear sector shaft grease pack (TRW steerboxes only)	Completed
15. Chassis lube notes, if any	Satisfactory
16. Grease Deck Gun	Satisfactory
17. Deck gun pressure gauge intact? (if used)	N/A

Technician: Adrian Shirk

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PM:1g Booster Reel service

Completed Date: 8/2/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/2/2025

Service Order: SO-1207

PM (Hours):

Procedure	Result
1. Booster reel Chain drive	Satisfactory
2. Swivel lubrication	Greased Swivel with Moly-lithium grease
3. Grease reel bearings and brake tension bearings PRN	N/A
4. Check for smooth operation of all rollers	Satisfactory
5. Reel notes, if any	Satisfactory

Technician: Adrian Shirk

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PM:1h Harrison Hydraulic Generator Service

Completed Date: 8/13/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,159 Miles (8/7/2024)

Engine Hours: 10,168 Hours (8/7/2024)

Next Due: 8/14/2025; 1,049 Hours

Service Order: SO-1207

Generator: 99379 AMPS R-8

Procedure	Result
1. Blow out heat exchanger fins & inside of generator with air hose	Satisfactory
2. Check Existing fluid level in reservoir	Satisfactory (Full)
3. Visualize all hoses between pump and generator for cracks/leaks	Satisfactory
4. Verify hourmeter is working, record reading in vehicle data	Satisfactory (799)
5. Change Filter	Satisfactory
6. Inspect filler cap/breather for damage or clogs	Satisfactory
7. Change hydraulic fluid	Satisfactory (Visual inspection the fluid appeared good. A oil sample for analysis was taken to determine if it needed changed)

Technician: Peter Fox

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Date: 8/13/2024



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Brigade Tek LLC

221 Old River Road
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pfox@brigadetek.com

PM:1p Electrical system inspection & Testing

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/5/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. How many batteries are used?	4
2. Record batteries CCA rating	N/A (950)
3. Inspect batteries & compartment(s) 21.3.1	Satisfactory (Batteries dated 7/20/24)
4. Are battery connections balanced?	Satisfactory (Weren't, but fixed)
5. Batteries with an 'eye'	Not used
6. Conductivity analysis: result of weakest battery 21.3.2.1 & 9.4	100%
7. Is the best result within 10% of weakest battery?	Satisfactory
8. Cables battery-starter (Chafing, loose connection, worn insulation) 21.4.1 & 9.2(1,2)	Satisfactory
9. Additional comments, if any	Satisfactory (Right front battery fails conductivity test repeatedly (460 ca), but passes load test without question.)
10. Low-Voltage alarm test 21.10	Sounds in less than 140 sec after battery drops to 11.70 VDC
11. Starter voltage drop test, positive 21.4.2.1	Satisfactory (0.039 at 400 amp)
12. Starter voltage drop test, negative 21.4.2.2	Satisfactory (0.34 at 400 amp)
13. Listen while starter cranks (Positive action, no unusual noises) TS49408.47	Satisfactory
14. Alternator cable voltage drop test, Positive 21.5.1.1	Defective (0.40 and 0.26 for negative)
15. Alternator cable voltage drop test, Negative 21.5.2.2	N/A (0.26.)
16. Alternator output current 21.5.5(6)	Satisfactory (Rated 270 amps. Output 270 amps)
17. Regulator test at no load 21.6.5.1	100F & 13.8-14.4; OK
18. Regulator test under 50% load @ half rated RPM 21.6.5.2	100F & 13.8-14.4; OK
19. If regulator test failed, explain	N/A
20. Solenoid voltage drop, Mechanical siren (0.3V allowed) 21.9	Satisfactory (0.21)
21. Solenoid voltage drop, electric primer (0.3V allowed) 21.9	Satisfactory (0.04)
22. Solenoid voltage drop, cab tilt (0.3V allowed) 21.9	Satisfactory (0.04)
23. Solenoid voltage drop, Equipment/ladder rack (0.3V allowed) 21.9	N/A
24. Solenoid voltage drop, reel(s) rewind (0.3V allowed) 21.9	N/A (Unable to check without significant disassembly, but both reels rewind strongly.)

Technician: Peter Fox

Digital Signature: Peter Fox

Date: 8/5/2024



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PM:2b Seat belt warning system test, two person

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/14/2025

Service Order: SO-1207

X0X - Cab, Climate Control, Instrumentation:

Procedure	Result
1. Driver seat	Defective (Light in dash is malfunctioning)
2. Officer seat	Defective (Light in dash malfunctioning)
3. Rear- #1 seat (counts from driver side to officer side)	Defective (Light in dash malfunctioning)
4. Rear #2 seat	Defective (Light in dash malfunctioning)
5. Rear #3 seat	Defective (Light in dash malfunctioning)
6. Rear #4 seat	Defective (Light in dash malfunctioning)
7. Rear #5 seat	Defective (Light in dash malfunctioning)
8. Rear #6 seat	Defective (Light in dash malfunctioning)

Technician: Adrian Shirk

Digital Signature: Adrian Shirk

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PM:2b Single person light checks

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/5/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Front Marker lights, Clearance lights 9.9(2-3)	Satisfactory
2. Side & Rear marker/clearance lights 9.9(2-3)	Satisfactory
3. Ground & step lights 9.10	Defective (Driver rear cab ground light doesn't work (last incandescent cab light left). None of 4 body ground lights are illuminating.)
4. License plate lamp	Satisfactory
5. Emergency lights 9.12(1) & 6.7.1(4)	Satisfactory (Driver lower rear being addressed in SO-1162, AI 3)

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PM:2b Two person inspection lights and steering

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/6/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Headlights (high, low, wig-wag) 9.9(1)	Satisfactory
2. Forward facing white warning light cut-out with parking brake	N/A
3. Front Turn signals & hazard lights 9.9(4)	Satisfactory
4. Brake Lights 9.9(5)	Satisfactory
5. Reverse lights & alarm 9.9(6) & 9.12(5)	Satisfactory
6. DOT lighting OOS criteria 6.7.1(1)	Satisfactory
7. Not latched alarm: compartments & cab doors 8.15.1.3 & 9.10(4)	Defective (Last two rear officer side compartments, top light in each compartment not working)
8. Check warning system for racks, light towers, stabilizers 8.16.3	N/A
9. Do steering hydraulics relieve before hard stop? 8.11.2.2	Satisfactory
10. Perform front axle statis shake test	Completed
11. Any lose components during shake test? 1/4" OOS criteria 8.11.4	Satisfactory (Peters note, there is a one time clunk when initiating both a left or right hand turn.)
12. Any looseness of the pitman arm on the steering gear output shaft?	Satisfactory
13. Test On-spots operation: moving 5mph, activate for 5 seconds. Watch for full deployment and retraction.	Satisfactory
14. 1910.10.2.8(1) Engine speed control interlock per 1910.22.7.5. 6.9.1(6) & (5) Inoperative interlock or pump panel throttle control is Pump OOS criteria	Satisfactory

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PM:2d Operation checks made from driver's seat - Air

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/14/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. ABS light illuminate for 2 seconds, but then goes off, after starting engine? 8.12.8.1	Satisfactory
2. Make several full applications of air brakes (min 3 times)	Completed
3. Air pressure cut-in and cut-out pressures 8.12.10.6	Satisfactory (120 psi)
4. Verify function of air dryer regeneration air flow 8.12.0.2	Satisfactory
5. Air gauge function 8.12.10.8 & 6.8.1.1(12)	Satisfactory
6. Transmission 4th lockup & shift indicators 10.2.8(4) & 6.9.1(1)	Satisfactory
7. Steering wheel backlash check 8.11.2.5 & 6.3.1(10)	Power Steer 18" =< 4-3/4"
8. Other steering wheel defects or mounting 6.2.3(3) &	Satisfactory
9. Dash/gauge lights 9.9(7)	Defective (Many gauge and warning/status lights missing or burned out. Replace 4 but ran out of bulbs. Need more Minaturr lamps no 73.)
10. Dash & instrumentation defects 6.2.3(4), 6.4.1(5), 6.6.1(2)	Satisfactory
11. Mechanical siren (bearings, brake), electronic siren 9.12(2), 6.7.3(1)	Satisfactory
12. Air horns should be quick & crisp. 8.13(1)	Satisfactory
13. Air ride seat, works w/ no leaks 8.13(3)	Satisfactory
14. Check automotive horn	Satisfactory
15. Check for rough idling, misfiring, bearing noises, piston slap and knock TS49408.47	Satisfactory

Technician: Wendall Pence

Digital Signature: Wendall Pence

Date: 8/5/2024



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PM:2d pump operations

Completed Date: 8/12/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,159 Miles (8/7/2024)

Engine Hours: 10,168 Hours (8/7/2024)

Next Due: 8/14/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Pump panel engine gauges & pump indicators 10.2.6, 6.9.2(5)	Satisfactory
2. Operate primer for 3-5 seconds with water	Satisfactory
3. Test pressure control device & transfer valve (if used) 10.2.8(2-3) & 6.9.1(3)	Satisfactory
4. Test overheat protection manager (if present), Light should flash	Satisfactory
5. Check drip rate of packing or Mechanical seal leakage 10.2.2 & 6.9.3	Satisfactory
6. Test foam manifold check valve	Satisfactory
7. GoTo CAFS compressor action Item, if applicable, to run it.	Completed
8. Individually check each drain line feeding a multi drain valve	Satisfactory
9. Operate all pump drains 7.2(24)	Satisfactory
10. Drain water tank, checking level gauge 6.9.2(7)	Satisfactory

Technician: Peter Fox

Digital Signature: Peter Fox

Date: 8/12/2024



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:2f Brake inspection (Air), single person

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 2/5/2025

Service Order: SO-1207

:

Procedure	Result
1. Purge ABS solenoids by turning ignition on with brake depressed 8.12.8.1	Defective (Heard only one shot of air.)
2. Supply side air leak down test (2 PSI in 60 seconds) 8.12.10.10 & 6.8.1.1(1)	Satisfactory
3. Applied side air leak down test (3 PSI in 60 seconds) 8.12.9.1 & 6.8.1.1(2)	Satisfactory
4. Inspect/measure brake lining wear 8.12.4 & 49 CFR Appendix-A-to-Part-396 1.a.(6)	Satisfactory
5. Inspect rotors/drums for heat damage, cracking, contamination 8.12.5 & 6.8.1.1	Satisfactory
6. Inspect running clearance of disc brakes 8.12.10(11) & 6.8.1.1(4)	N/A
7. Pressure protection valve cutoff @ 80 PSI or greater 8.12.10.1.1-2	Satisfactory (105)
8. Trigger pressure of low air alarm (Min 55 PSI) 8.12.10.7, 6.8.1.1(12), 49 CFR Appendix-A-to-Part-396 1.f.	Satisfactory
9. Record Push pull valve spring brake pop-out pressure	Satisfactory (60)
10. Diagnostically check pressure relief valve	N/A
11. Inspect air tanks & drains, note any water 8.12.10.2	Satisfactory (Secondary air tank had a small amount of water)
12. Equipped with 2 accessible wheel chocks 6.8.4	Satisfactory

Technician: Wendall Pence

Digital Signature: Wendall Pence

Date: 8/5/2024



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:2g Brake inspection (Air). Two person 013-000-000

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 2/14/2025

Service Order: SO-1207

:

Procedure	Result
1. Inspect brake push rod stroke, axle 1 8.12.10(6) & 6.8.1.1(4)	Type 30, 2" or less- Satisfactory
2. Inspect brake push rod stroke, axle 2 8.12.10(6) & 6.8.1.1(4)	Type 30, 2" or less- Satisfactory
3. Inspect brake push rod stroke, axle 3 8.12.10(6) & 6.8.1.1(4)	N/A
4. Inspect Disc Brakes, Axle 1	N/A
5. Inspect Disc Brakes, Axle 2	N/A
6. Inspect Disc Brakes, Axle 3	N/A
7. Check relay valves for leaks Bendix SD-03-1064	Satisfactory
8. Diagnostically check quick release valve(s) for leaks	Satisfactory
9. Diagnostically check Quick release valves for leaks	Satisfactory
10. Inspect all other air valves and lines for leaks 8.12.10.3	Satisfactory
11. Perform dual circuit brake test	Satisfactory
12. Engage On-Spots and check for air leaks (If equipped)	Satisfactory
13. Check chainwheel pressure against tire, should be at least 20 lbs	Satisfactory

Technician: Adrian Shirk

Digital Signature: Adrian Shirk

Date: 8/6/2024



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3b Caterpillar 3176B, 3406E, C10 & C12 oil and filter

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/5/2025; 10,468 Hours

Service Order: SO-1207

PM (Hours):

Procedure

Result

Procedure	Result
1. Obtain oil sample & drain oil	Satisfactory
2. Replace Filter	Satisfactory
3. Fill with oil	Satisfactory

Technician: Peter Fox

Digital Signature: Peter Fox

Date: 8/5/2024



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3b Allison HD/B/3000/4000 filters change

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/6/2027; 172,159 Miles

Service Order: SO-1207

PM (Miles):

Procedure	Result
1. Remove both filters	Completed
2. Install new filters	Completed
3. Torque filter cover bolts to 35-45 ft lb	Completed

Technician: Adrian Shirk

Digital Signature: Adrian Shirk

Date: 8/6/2024



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503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3b Allison HD/B/3000/4000 fluid change

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/6/2028; 247,159 Miles

Service Order: SO-1207

PM (Miles):

Procedure	Result
1. Prepare oil sample container	Completed
2. Drain fluid, note and visible problems with it	Satisfactory
3. Perform filter replacement service	Completed
4. Install drain plug, torque to 18-25 ft lb	Completed
5. Refill transmission with fluid	Completed

Technician: Adrian Shirk

Digital Signature: Adrian Shirk

Date: 8/6/2024



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503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3b power steering fluid & filter change 015-005-000 Power Steering Group

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/5/2025

Service Order: SO-1207

PM (Hours):

Procedure	Result
1. Perform with engine at operation temperature	N/A
2. Disconnect both pressure & return lines from steering gear to drain fluid	Completed
3. Replace power steering filter	Completed
4. Fill system and bleed by steering left to right with engine at idle.	Satisfactory

Technician: Peter Fox

Digital Signature: Peter Fox

Date: 8/5/2024



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3c Spicer drive axle fluid change 24 MO

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/6/2026

Service Order: SO-1207

:

Procedure	Result
1. Change rear axle/differential	Satisfactory
2. Remove & clean axle breather in solvent and blow dry.	Completed

Technician: Timothy Earley

Digital Signature: Timothy Earley

Date: 8/6/2024



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503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3d charger, cab & compartment doors, steps

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/14/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. 1910.8.9.7 Automatic Electrical Load Management System	Satisfactory
2. Shoreline plug & ejection unit 9.8(2)	Lubricated plug & tested eject function
3. What is the output rating of the shoreline battery charger?	11 Amp
4. Initiate battery charger test 21.7.1	Completed
5. Obtain diagnostic report from engine 8.4.4	Completed
6. Obtain diagnostic report from ABS 8.12.8.2	N/A
7. Obtain diagnostic report from transmission 8.9.7	Completed
8. Any concerning trouble codes?	Satisfactory (No codes)
9. Compare computer gauge readings to dash gauge readings 8.6.4	Satisfactory
10. Electronic steering controls 8.11.6	No Electronic steering controls present
11. Steps, access ladders, platforms, & handrails are secure 8.14.4 & 8.15.2	All secure, lubricated fold down steps
12. Doors, latches, hinges, door checks, weatherstripping 8.15.1.1-2	Doors latch securely w/out slamming, weatherstripping intact, and lubricated
13. Latches & any mechanism used for securing hard sleeve, ladders	Satisfactory
14. Notes for doors & steps, if any	Satisfactory
15. Reflective striping/Conspicuity tape not torn or missing 8.15.4	Satisfactory
16. Check for missing labels (Valves/drains/gauges, etc) 8.155	Satisfactory
17. Finish battery charger test 21.7.2	After 60 minutes with 80% load, battery remains at least 12.54 VDC
18. Any additional notes	Satisfactory

Technician: Timothy Earley

Digital Signature: Timothy Earley

Date: 8/6/2024



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503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3d Air dryer

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/5/2026

Service Order: SO-1207

:

Procedure

Result

1. Replace Air Dryer Cartridge

Completed

Technician: Wendall Pence

Digital Signature: Wendall Pence

Date: 8/5/2024



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3f Hale Midship, Oil change & shifter lubricate

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/6/2025

Service Order: SO-1207

Fire Pump: 75896 Hale QMAX 200-23L

Procedure	Result
1. Check Pump Transmission oil level	Oil level correct
2. Drain Pump Transmission Oil	Completed
3. Is oil milky?	Satisfactory
4. Inspect Drain plug magnet	Satisfactory
5. Additional Comments	Satisfactory
6. Fill with SAE80W-90 EP gear oil	Satisfactory (4.4)
7. Drain Autolube- inspect oil	Oil contaminated with water
8. Fill Autolube with gear oil	Completed
9. Lubricate VPS pump shift	Completed
10. Check for VPS and control leaks	Satisfactory

Technician: Wendall Pence

Digital Signature: Wendall Pence

Date: 8/6/2024



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503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:3f Water Pump intake screens, suction threads, anodes

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 2/5/2025

Service Order: SO-1207

Fire Pump: 75896 Hale QMAX 200-23L

Procedure	Result
1. Intake screens & pump housing 10.2.3	Intake screens cleaned, wire wheel clean pump body
2. Pump UL plate legible 10.2.7	Satisfactory
3. Primer fluid 10.2.9	Non-lubricated primer
4. Water tank anodes 10.3.2	N/A
5. Inspect/clean anodes 10.2.3	N/A
6. Grease Suction Threads	Completed
7. Check adjustment of valve positional locks	Defective (Drivers side aux intake handle lock not working)
8. Lubricate valve actuators	Greased gears, dry lube sliders, wet lube open ball joints
9. Visually inspect cap & plug gaskets & chains or cables	Satisfactory
10. Inspect manual pump shift over-ride cable	While in Neutral, able to shift pump easily with over-ride
11. Water pump notes, if any	Satisfactory

Technician: Wendall Pence

Digital Signature: Wendall Pence

Date: 8/5/2024



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:4a Performance Test of Generator

Completed Date: 8/6/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/14/2025

Service Order: SO-1207

Generator: 99379 AMPS R-8

Procedure	Result
1. 1910.26.3.5(1) Record Voltage, Frequency, and Amps: No load	Satisfactory (129.1 volts, 62Hz, 0Amps)
2. 1910.26.3 Power source testing: Load generator between 50% & 100% of it's continuous rating for 10 minutes	Completed
3. 1910.26.3.5(2) Record Voltage, Frequency, and Amps: After load has been applied	Satisfactory (127.2 volts, 59.2 Hz, 23 Amps)
4. 1910.26.4.1.1 For bonded systems: Verify hot & neutral are connected to the correct receptacle pins, and that ground is connected. 1910.6.7.2 Deficiencies require OOS evaluation & write up.	Satisfactory
5. 1910.4.5.2 & 1910.26.5 GFCI testing: Check that they trip by integral button or external tester, and that the reset button resets the fault. 1910.6.7.3(3) deficiency requires OOS evaluation & write up	N/A
6. 1910.26.6 Line voltage equipment testing: All equipment shall be ran for 10 minutes. All shall operate without arcing, failure, or excessive heat. 1910.6.7.3(3) & (5) Tripping breakers, damaged receptacles, other shock hazard require OOS evaluation &	Satisfactory
7. 1910.26.3.5(3) Record Voltage, Frequency, and Amps: After 10 minutes, still loaded	Satisfactory (121.4 volts 57.1 hz 21 amps)
8. 1910.26.3.5(4) Record Voltage, Frequency, and Amps: At end of test when load has been removed.	Satisfactory (114.5 volts, 57.2 Hz 0 Amps)

Technician: Adrian Shirk **Digital Signature:** Adrian Shirk **Date:** 8/6/2024



Waynesboro Fire Department

503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:9z 1910 Tire & axle weight inspection, Axle 1

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/5/2025

Service Order: SO-1207

:

Procedure	Result
1. Record Gross Axle Weight Rating (GAWR) Axle 1	Satisfactory (18000)
2. Record tire load rating. Sum must >= GAWR 6.31(1) & 8.3.4	Satisfactory (10200, 10200)
3. Record DOT numbers: Axle 1 8.3.6	Satisfactory (2721, 2721)
4. Record tread depth if less than 10/32": Axle 1 6.3.1(4)	Satisfactory
5. Record speed rating 8.3.5 & 6.3.1(5)	K: 68 MPH
6. Is vehicle governed speed less than tire speed rating?	Satisfactory
7. Tire pressure: axle 1, left 8.3.3	Satisfactory (120)
8. Tire pressure: axle 1, right	Satisfactory (118)
9. Visually inspect rims for cracks, welds, corrosion 6.3.1(7) & 8.3.8	Satisfactory
10. Visually inspect tires for cuts to the cord, bulges greater than 3/8 in. 6.3.1(3)	Satisfactory
11. Check wheel bearing oil level 8.3.2	Satisfactory

Technician: Wendall Pence

Digital Signature: Wendall Pence

Date: 8/5/2024



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503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:9z 1910 Tire & axle weight inspection, Axle 2

Completed Date: 8/5/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/14/2025

Service Order: SO-1207

:

Procedure	Result
1. Record GAWR, Axle 2	Satisfactory (27000)
2. Record tire load rating. Sum must >= GAWR 6.31(1) & 8.3.4	Satisfactory (6780, 6780, 6780, 6780)
3. Record DOT numbers: Axle 2 8.3.6	Satisfactory (0219, 0219, 1818, 1818)
4. Record tread depth if less than 10/32": Axle 2 6.3.1(4)	Satisfactory
5. Record speed rating 8.3.5 & 6.3.1(5)	L: 75 MPH
6. Is vehicle governed speed less than tire speed rating?	Satisfactory
7. Tire pressure: axle 2, left outer 8.3.3	Satisfactory (115,)
8. Tire pressure: axle 2, left inner	Satisfactory (105)
9. Tire pressure: axle 2, right inner	Satisfactory (115)
10. Tire pressure: axle 2, right outer	Satisfactory (110)
11. Visually inspect rims for cracks, welds, corrosion 6.3.1(7) & 8.3.8	Satisfactory
12. Visually inspect tires for cuts to the cord, bulges greater than 3/8 in. 6.3.1(3)	Satisfactory
13. Inspect axle shaft caps for missing nuts or leaks 8.3.1(6) & 6.3.1(8)	Satisfactory

Technician: Wendall Pence

Digital Signature: Wendall Pence

Date: 8/5/2024



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503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:4z 1910 Chapter 20 Road & brake Tests NFPA

Completed Date: 8/7/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/14/2025; 98,359 Miles

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Run wipers & washer 9.11(3) & 6.2.1(3)	Wipers & washer operate satisfactorily
2. 20 mph stopping distance 20.3.3	Over 10,000 lb straight truck: stops within 35 ft
3. Parking brake test 20.4	Holds vehicle on 20% grade, in both directions
4. Attain minimum top speed of 50 mph on level roads 20.5.2 & 20.5.4(1)	50 mph attained
5. Smooth transmission shifting 20.5.4(2)a & TS49408.50	Satisfactory
6. Check engine/transmission brake. TS49408.51	Satisfactory
7. Driveline and vehicle vibrations 1910.20.5.4(2)b & TS49408.51	Satisfactory
8. Drifting and pulling during acceleration or braking 1910.20.5.4(2)c & TS49408.49	Satisfactory
9. Abnormal noise in braking 1910.20.5.4(2)d	Satisfactory
10. Check for steering wander TS49408.49	Satisfactory
11. Check for steering shimmy TS49408.49	Satisfactory
12. Resistance to steering recovery after a 90-degree turn 1910.20.5.4(2)e	Satisfactory
13. Check speedometer operation while driving. TS49408.48	Satisfactory
14. Check heater defroster & A/C 1910.9.11(1) & (2)	Satisfactory
15. Builds air pressure from 85 to 100 PSI in less than 45 sec? 1910.6.8.1.1(7)	Satisfactory
16. Failing to build to cut-out pressure with spring brakes released is OOS 1910.6.8.1.1(8)	Satisfactory
17. Fan engage/disengage while driving 8.5.8-9	N/A (Cobstant engaged not clutched.)
18. Check transmission fluid level	oL oK
19. Record oil pressure at idle TS49408.47	Satisfactory (20)
20. Check tachometer operation throughout engine speed range. 1910.9.11(4) & TS49408.48	Satisfactory
21. Record coolant temperature after drive TS49408.47 & 1910.8.5.8	Satisfactory (185°F)
22. Record engine oil temperature (if equipped) TS49408.47	N/A
23. Check temperature of shock absorbers RP 643B	Satisfactory (107°F +/- 5)

Technician: Timothy Earley

Digital Signature: Timothy Earley

Date: 8/7/2024



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503 W. Main Street
Suite 203
Waynesboro, VA 22980
fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:4z 1910 Chapter 20 Annual Weight Verification

Completed Date: 8/7/2024

Unit: 299 **VIN:** 1S9A1BLD0X1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,154 Miles (8/2/2024)

Engine Hours: 10,168 Hours (8/2/2024)

Next Due: 8/14/2025

Service Order: SO-1207

X1X - Chassis: 1S9A1BLD0X1003035 1999 Sutphen CUSTOM | HS3373

Procedure	Result
1. Load vehicle with all items used while in-service, fill all fluid tanks. 20.2.2	Completed
2. Record front axle weight 20.2.3(1)	Satisfactory (13,300 lb.)
3. Record rear axle(s) weight 20.2.3(2)	Satisfactory (26,020 lb)
4. Record gross weight 1910.20.2.3(3)	Satisfactory (39,320 lb)
5. If scales allow, record right to left side weight variation. It should be no more than 7%. A.20.2.3	N/A
6. Print and fill out the attached form. Attach a photo of the completed form. 20.2.4	Satisfactory (1,200 lb personnel on front axle + 13,300 = 14,500 (rated 18,000). Rear 26,020 (rated 27,000))
7. If any of the reserve capacity values are not positive, the test is a fail and weight needs to be removed. 20.2.5	N/A

Technician: Timothy Earley

Digital Signature: Timothy Earley

Date: 8/7/2024



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Suite 203
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fitzgeraldgg@ci.waynesboro.va.us



Brigade Tek LLC

221 Old River Road
Suite B
Bridgewater, VA 22812
pfox@brigadetek.com

PM:9z Service Order Review

Completed Date: 8/14/2024

Unit: 299 **VIN:** 1S9A1BLDOX1003035

Year/Make/Model: 1999 Sutphen CUSTOM | HS3373

Chassis Miles: 97,159 Miles (8/14/2024)

Engine Hours: 10,168 Hours (8/14/2024)

Next Due: 8/14/2025

Service Order: SO-1207

PM (Hours):

Procedure	Result
1. Meters filled in? Miles, Engine hours, pump hours, PTO, Gen, Aerial, etc.	Completed
2. Are diagnostic report(s) uploaded to SO?	Completed
3. Do the parts billed match service performed?	Completed

Technician: Peter Fox

Digital Signature: Peter Fox

Date: 8/14/2024