



Gorman Emergency Vehicles
691 Bullis Road
Elma NY 14059
(716) 675-5796

AERIAL DEVICE INSPECTION

Customer: Hamburg VFD

Date: 10/20/2020

Aerial Manufacturer: Sutphen

Model: _____ Serial # _____

Aerial hours: _____

Rated capacity: 800lbs

Hydraulic Systems

Turntable

- ☒ Rotation gear reduction box
- ☒ Rotation hydraulic swivel
- ☒ Lines and hoses
- ☒ Control valve

Chassis

- ☒ Hydraulic tank
- ☒ Hydraulic fluid levels
- ☒ Hydraulic fluid sample
- ☒ PTO
- ☒ Hydraulic pump
- ☒ Auxiliary power pump
- ☒ Lines and hoses

Stabilizer

- ☒ Cylinders
- ☒ Control valve
- ☒ Lines and hoses
- ☒ Diverter Valve

Aerial

- ☒ Elevation cylinder
- ☒ Extension Cylinder
- ☒ Lines and hoses
- ☒ Tip controls

Platform

- ☒ Control valve
- ☒ Leveling cylinders
- ☒ Lines and hoses

Structural Fasteners

- ☒ Turntable mounting bolts
- ☒ Torque box mounting to frame bolts
- ☒ Suspension system bolts

Tractor Drawn Components

- ☒ Mounting to frame bolts
- ☒ Rotation gear reduction box mounting bolts
- ☒ Boom support/ladder cradle mounting bolts

Stabilizer

- ☒ Mounting to frame or torque box
- ☒ Mounting bolts

Lubrication

- ☒ Sheaves
- ☒ Cables
- ☒ Ladder section base rails
- ☒ Ladder heel pin
- ☒ Rotation gear and bearing
- ☒ Rotation gear reduction box
- ☒ Elevation cylinder pins
- ☒ Extension cylinder pins
- ☒ Stabilizer extension cylinder pins
- ☒ Aerial waterway pipe sections

Indicators

- ☒ Rung alignment
- ☒ PTO engaged
- ☒ Aerial alignment
- ☒ Turntable alignment
- ☒ Elevation
- ☒ Extension
- ☒ Turntable level

Turntable Components

- ☒ Safety signs
- ☒ Communication system
- ☒ Emergency hydraulic power
- ☒ Interlock systems
- ☒ Electrical lines

Aerial Components

<u>x</u>	Gore tube
<u>x</u>	Waterway
<u>x</u>	Sheaves
<u>x</u>	Pinable waterway
<u>x</u>	Rung covers
<u>x</u>	Breathing air
<u>x</u>	Wear strips

Stabilizers Components

<u>x</u>	Lights
<u>x</u>	Pads
<u>x</u>	Interlocks
<u>x</u>	Safety pins

Comments on aerial device inspection:

operational pm only -- truck is getting sold in 5 months

Inspector: Rick Ellman

Date: 10/20/2020

AHJ representative: _____

Date: _____

Fire Truck Chassis PM

Date:
Terminal:
Fleet #:
Tech #:

10/19/2020
Hamburg VFD
Eng#6
RE

'A' CERTIFIED INSPECTION

Gorman Emergency Vehicles
691 Bullis Road
Elma NY 14059
(716) 675-5796



RO#
Current Mileage:
Last LOF mileage:
Miles since last LOF:

HA32982
19377
17981
1396

A. DETERMINE MILES SINCE LAST LOF

B. Interior

- State inspection certificate - Date:
- Back up alarms
- Temperature and oil warning devices
- Neutral safety system
- Horn, gauges and dash lights
- Heater, defroster and fan
- Windshield wipers and washer
- Indicator lamps
- Clutch, gearshift and throttle operation
- Clutch and brake pedal play and operation
- Steering free play ____X____ inches
- Applies/unapplied brake test air/vac loss
- Low air vacuum warning buzzer
- Air governor setting L:90 lbs Hi:120 lbs
- Interior clean
- Windshield/glass condition/A.S. Rate
- Window mechanism and seals
- Seat condition and mounting
- Interior body, floor and stanchions

OK	REP
	X
X	
X	
X	
X	
X	
X	
NA	
NA	
X	
X	
X	
X	
X	
X	
X	
X	

C. EXTERIOR

- All exterior lights and signals
- Mirror condition and mounting
- Record body damage - be specific
- Bumper bolts
- Paint, lettering and appearance
- Axle flange and lug nuts - oil hub
- Tire side wall condition, cracked wheels, valve stem caps, alignment on rear duals

X	
X	
X	
X	
X	
X	

8 Tread Depth

LF_X_ RF_X_ LRO_X_ LRRO X LRRI X
LRI_X_ RRO_X_ RRI_X_ RRRO X RRRI X
10 Tire inflation: Record and inflate as needed
LF_X_ RF_X_ LRO_X_ LRRO X LRRI X
LRI_X_ RRO_X_ RRI_X_ RRRO X RRRI X

D. Fire Equipment

- Pump shift and indicator lights
- Automatic transmission lockup system
- Clutch disengagement and manual trans
- Pump trans shift cylinders or motor
- Pump transmission oil level and condition
- Pump panel tach and engine gauges
- Engine speed counter
- Pump panel electrical switches & panel light
- Master gauges for accuracy and operation
- Discharge gauges for accuracy and operation
- Water tank indicator system
- Pump
- Pump plumbing
- Intake relief operation
- Primer operation
- Pump packing - adjust if necessary
- Mechanical seals for leaks
- Discharge and intake valves
- Valves, linkage, remote rods, pivot points
- Drain valves
- Tank-to-pump and tank fill valves
- Auxiliary cooler
- Suction strainer
- Preconnect valves and plumbing
- Deck gun valve and plumbing
- Front or rear suction valves and plumbing valves
- Auto lube level and fluid condition
- Water tank mounting and integrity
- Booster reel mounting and operation
- Pump mounting integrity
- Pump driveline U-joints, yokes, flanges
- Pump test certification

OK	REP
X	
X	
NA	
X	
X	
X	
X	
X	
X	
X	
X	
NA	
X	
X	
X	
NA	
X	
NA	
X	
NA	
NA	
X	
X	
X	

E. UNDER HOOD

- Any visible leakage, identify, repair and clean area as needed
- Engine oil level CHANGED
- Auto transmission fluid level/condition
- Brake fluid
- Power steering fluid
- All belts - condition, tension, alignment
- Component/accessory mtg and connections
- All hoses and line - condition and routing
- Coolant level and protection
- Pressure test cooling system
- Water pump, fan clutch play

	X
X	
X	
X	
NA	
X	
X	
X	
X	
X	

E. UNDER HOOD Con't

	OK	REP
12 Air filter condition - per restriction gauge	X	
13 Carburetor, choke and throttle operation	NA	
14 Distributor cap, coil and ignition wires	NA	
15 PCV system, emission pump	NA	
16 Exhaust system at engine	X	
17 Battery fluid level and mounting	X	
18 Clean battery and connections	X	
19 Drain fuel/water separator	NA	
20 Tilt hood mounts	A	

F. BRAKES

1 Visible/audible leaks	X	
2 Check all lines along chassis	X	
3 Vacuum booster hoses and mounting	NA	
4 Hydraulic lines, wheel cylinders, calipers	NA	
5 Air chambers, relay valves and lines	X	
6 Slack adjusters, linkage and bushings	X	
7 Air tanks/lines/mounting brackets	X	
8 Visually inspect linings and drums	X	
9 Adjust all brakes, wheels off ground		
10 Parking and emergency brake system	X	
11 Two-way check valves in dual air system	X	
Alternately drain primary		
12 Drain all air tanks	X	

H. ROAD TEST WHEN NECESSARY

I. DISCUSS MAJOR REPAIRS WITH SUPERVISOR

J. NOTED REPAIRS REQUIRED

SEE INVOICE

G. CHASSIS

	OK	REP
1 Kingpin and wheel bearing play	X	
2 Tire wear, condition and matching	X	
3 Leakage at backing plates and wheel seals	X	
4 Steering box, mtg linkage looseness/leaks	X	
5 Front shocks and mounting	X	
6 Front springs, bushings and U-bolts	X	
7 Engine leaks, lines, filters, hoses/mounts	X	
8 Starter mounting and condition	X	
9 Exhaust system and mounting	X	
10 Transmission mounted parking brake	NA	
11 Trans leaks	X	
12 Output shaft play	X	
13 Driveshaft, guards, U-joints, ctr support	X	
14 Body hold downs and insulator	X	
15 Wiring along frame, condition/securement	X	
16 Differential leaks, fluid level	X	
17 Pinion play	X	
18 Breather vents	X	
19 Rear shocks and mounting	NA	
20 Rear springs, bushings and U-bolts	X	
21 Leakage and backing plates and wheel seals	X	
22 Fuel tank straps and lines	X	
23 Tail pipe and hangers, condition and securement	X	
24 Lube entire chassis	X	
25 Check drag link, tie rod ends, idler arms	X	

RICK ELLMAN
Signature of Inspecting Mechanic

Keri Monin
Signature of Supervisor



Midship Pump Maintenance Check List

Customer : Hamburg VFD
Pump Model : QSMG150-23
Year: 1992

Truck Manufacturer: Sutphen
Service # HA32982
Fleet# 6

RECOMMENDED WEEKLY PROCEDURES:

- ☐ Test relief valve system or governor at 150, 200, 250. If pump is equipped with TPM, you will need to have positive pressure.
- ☐ Operate transfer valve and check clapper valves for proper operation on 2-stage pumps.
- ☒ Test the priming system and check lubrication level in priming tank (if applicable)
- ☒ Operate all valves, discharge, suction, hose, drain and multi drain.
- ☒ Check pump shift indicator lights.

RECOMMENDED MONTHLY PROCEDURES

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Complete weekly checks										X		
Lubricate threads on PM relief valve panel control & check light. DO NOT USE GREASE										X		
Lubricate remote valve controls & all valves										X		
Check controlled drip rate, adjust if necessary (8-10 drops per minute @ 100-150 PSI)										X		
Perform dry vacuum test*										X		
Check drive flange bolts to ensure tightness. Lubricate U Joint.										X		
Lubricate suction tube threads. DO NOT USE EXCESSIVE GREASE.										X		
Clean and inspect inlet strainers (Examine for loss of zinc)										X		
Inspect cap gaskets. Replace if cracked or damaged.										X		
Check oil level in pump gear box; add oil as necessary or replace oil with SAE EP 90 oil if contamination is found.										X		

*Per NFPA-1911, para. 3-32m 22 inches minimum vacuum; loss not to exceed 10 inches vacuum in 5 minutes

RECOMMENDED ANNUAL PROCEDURES

- ☒ Complete all previous checks
- ☒ Check gauge calibration.
- ☒ Check oil level in AutoLube assy (SEA-EP 90 oil). Pump must be drained of water prior to checking oil. See operation and maint. manual for details
- ☒ Lubricate power transfer cylinder. VPS shift cylinder and shift control valve with air tool oil.
- ☐ Drain pump gear box oil and refill (use SAE-EP 90 oil). Examine magnetic plug.
- ☒ Check individual drain lines from pump to multi-drain to ensure proper drainage and protection from freezing.
- ☐ Lubricate transfer valve mechanism on two state pump. Dry moly spray is preferred.
- ☒ Perform yearly standard pump test (Per NFPA-1911) to test pump performance levels.
- ☐ Repacking of pump is recommended every two or three years.
- ☐ Service ESP-primer as per bulletin.
- ☐ Remove and clean relief valve strainers.

NOTE: The above general recommendations are provided for normal use and conditions. Extreme conditions or variables may indicate a need for increased maintenance. Good preventative maintenance lengthens pump life and ensures greater dependability. Consult service or diagnostic chart in operator's manual for detailed information.

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Performance Service Test by Gorman Emergency Vehicles as per NFPA 1911-2007
and ISO Standards Recommended on Rated and Non Rated Fire Apparatus
Service Performed with A Draft Commander 3000 Using Clean Clear Water

Results of ISO Service Test for: Hamburg VFD

Apparatus Number or Designation: 6	Fire TK Mfgr. Serial # HS52630	Fire TK Mfgr: STUPHEN
Commercial Chassis Type:	Year Mfgr: 1992	Model:
Manufacturer's Custom Apparatus Type: Tower Ladder		Vin: 1S9A3JFEIN1003969
Engine Make: Gas _____ Diesel: X	Engine Model: Detroit 6V92	
Pump Make: Hale	Model: QSMG150-23	Serial Number: 61553
Pump Rated Capacity: 1500 GPM	Single Stage: X	Two Stage:
Test Site Location: Gorman Enterprises	Mileage: 19377	Governed Speed: 2125

Preparation BEFORE Starting the SERVICE TEST

Chassis Engine Oil Level: X	Water Temperature : 50 DEGREES
Fire Pump Transmission Oil Level: X	Air Temperature: 48 DEGREES
Chassis Coolant Level: X	

Section 5,2.3.2 Page 9: All headlights, warning lights and airconditioners, if provided, shall be operating during pumping portion of this test.

Lights On: x

Lights Off:

Maximum Vacuum Attained: 24	Vacuum Drop in 5 Min: 8.50	Time to Prime Pump: 11 SEC
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Recommended Repairs:

SEE INVOICE

**In order to receive the maximum credit of 100 points per truck, a pump test as per NFPA Standard 1911-2010
Must be performed at annual intervals.**

Service Technician: Rick Ellman

Date of Service Test: 10/20/2020

Next Service Test Due Date: 10/20/2021

Witnessed by: Jeffrey Caliano

Title: Technician