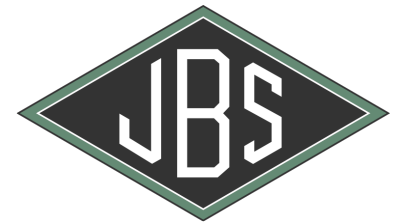


Report of Inspection/Test

Annual NFPA 25



2021-10-14

Property

VU - Eskind Library

2209 Garland Ave

Nashville TN 37232

Damon Varble

Print Date: 2021-10-18

Conducted by: Shannon Edwards

Bouchard Fire Protection

1024 Harrison Street

Nashville TN 37203

Report of Inspection/Test for Asset - Electric Pump

Fire Pump Information

Property Owner	Vanderbilt University
Property Name	Eskind Library
Property Address	2209 Garland Ave, Nashville, TN 37232
Pump (Horizontal or Vertical):	Horizontal
Pump Manufacturer	Aurora
Model	5-481-11C
Rated Pressure	95
Rated RPM	3550
Suction	City Main
If Tank, size and height	5x481
Driver, (electric or diesel engine)	Electric
Engine Manufacturer	Marathon
Rated Speed	3550
Rated Voltage	460
Rated Amps	184-92
Controller Manufacturer	Joslyn Clark
Controller Model	7250813-1-1
Jockey Pump Manufacturer	Grundfos
Jockey Pump Model	CR2
Jockey Controller Manufacturer	Grundfos

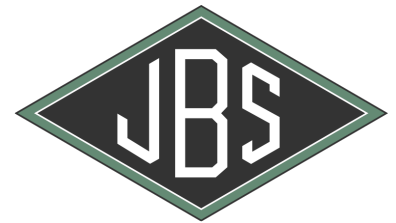
OWNER SECTION

Is there a Jockey Pump on system?	☒ Yes ☐ No ☐ NA	Jockey Settings? (on/off)	☒ Yes ☐ No ☐ NA
Is the fire pump in service?	☒ Yes ☐ No ☐ NA	Was the system (of which the pump is a part) free of actuation of devices or alarms since the last inspection?	☒ Yes ☐ No ☐ NA

HYDROSTATIC TEST

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Piping test at ____ psi for 2 hours?

N/A

Piping passed test?

☐ Yes

☐ No

☒ NA

Certificate was presented showing test?

☐ Yes

☐ No

☒ NA

CONTROLLER TEST

Were all signal conditions simulated demonstrating workable operation?

☒ Yes

☐ No

☐ NA

INSPECTION

Pump house/room proper temperature?

☒ Yes

☐ No

☐ NA

Are suction, discharge and bypass valves open?

☒ Yes

☐ No

☐ NA

Is Piping free from leaks?

☒ Yes

☐ No

☐ NA

Suction and system pressure gauges normal?

☒ Yes

☐ No

☐ NA

Waterflow test valves in closed position?

☒ Yes

☐ No

☐ NA

Controller indicating power on?

☒ Yes

☐ No

☐ NA

Transfer switch indicating normal situation?

☒ Yes

☐ No

☐ NA

Isolation switch closed?

☒ Yes

☐ No

☐ NA

Pump in correct phase?

☒ Yes

☐ No

☐ NA

Circulation relief valve flowing water?

☒ Yes

☐ No

☐ NA

TESTING

Electric pump started automatically?

☒ Yes

☐ No

☐ NA

Electric motor driven pump ran for 10 min?

☒ Yes

☐ No

☐ NA

Packing gland showing slight discharge? (Adjust if necessary)

☒ Yes

☐ No

☐ NA

Packing boxes, bearing and pump casing free from overheating?

☒ Yes

☐ No

☐ NA

No alarm indicators or other visible abnormalities observed during no-flow test?

☒ Yes

☐ No

☐ NA

All alarm conditions simulated?

☒ Yes

☐ No

☐ NA

All alarms operated?

☒ Yes

☐ No

☐ NA

Pump "In-Service" on Inspection?

☒ Yes

☐ No

☐ NA

Suction Pressure - PSI Static Before Test:

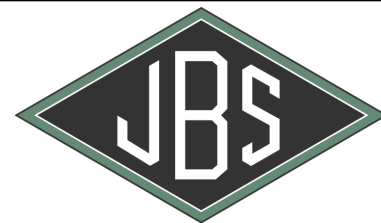
75

Suction Pressure - PSI During Test:

70

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Suction Pressure - PSI Static After Test:

75

Discharge Pressure - PSI During Test:

190

MAINTENANCE

Changed pump bearing lubrication?

☒ Yes
☐ No
☐ NA

Shaft end play acceptable?

☒ Yes
☐ No
☐ NA

Pressure gauges and sensors accurate?

☒ Yes
☐ No
☐ NA

Coupling alignment acceptable?

☒ Yes
☐ No
☐ NA

Transmission coupling, right angle gear drive and mechanical moving parts lubricated?

☒ Yes
☐ No
☐ NA

Electrical connections secure?

☒ Yes
☐ No
☐ NA

Is the volt meter and ammeter accurate?

☒ Yes
☐ No
☐ NA

Pressure switch settings calibrated?

☒ Yes
☐ No
☐ NA

Motor bearing greased?

☒ Yes
☐ No
☐ NA

No leaks in plumbing parts?

☒ Yes
☐ No
☐ NA

No sign or water on electrical parts?

☒ Yes
☐ No
☐ NA

FLOW TEST

Did engine-drive unit show no signs of overload or stress?

☒ Yes
☐ No
☐ NA

Did the gear drive assembly operate without excessive objectionable noise, vibration, or heating?

☒ Yes
☐ No
☐ NA

Did the pump perform at all conditions without objectionable overheating of any component?

☒ Yes
☐ No
☐ NA

Run the pump at no-load, rated load and peak load (usually 150% of the rated load) conditions. For variable speed drivers, run the test with pressure limiting control "on" at 25, 50, 75, 100, 125, and 150% of rated load and then again rated speed w/ the pump isolated from the fire protection system and the relief valve closed.

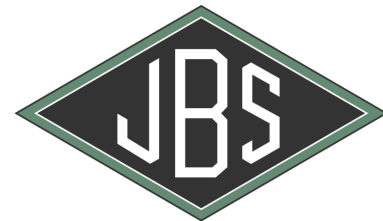
☒ Yes
☐ No
☐ NA

Were there no vibrations that could damage any fire pump component?

☒ Yes
☐ No
☐ NA

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PERFORMANCE

Rated %	Driver speed: RPM	Total Flow	Net Pressure: PSI	Discharge Pressure: PSI	Suction Pressure: PSI
0%	3575	N/A	120	190	70
50%	N/A	N/A	0	0	0
100%	3568	1004	110	175	65
150%	3559	1506	80	140	60

ELECTRIC MOTOR

	L1 Voltage	L1 Amperes	L2 Voltage	L2 Amperes	L3 Voltage	L3 Amperes
0%	N/A	N/A	N/A	N/A	N/A	N/A
50%	N/A	N/A	N/A	N/A	N/A	N/A
100%	N/A	N/A	N/A	N/A	N/A	N/A
150%	N/A	N/A	N/A	N/A	N/A	N/A

Pump Flow Detail

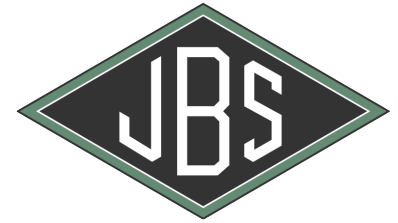
Coefficient (same for all): .97

Nozzle/Orifice Size: 1.75 (inches)

	PITOT					
	1	2	3	4	5	6
0%	N/A	N/A	N/A	N/A	N/A	N/A
50%	N/A	N/A	N/A	N/A	N/A	N/A
100%	32	32	N/A	N/A	N/A	N/A
150%	32	32	32	N/A	N/A	N/A
	FLOW					
0%	N/A	N/A	N/A	N/A	N/A	N/A
50%	N/A	N/A	N/A	N/A	N/A	N/A
100%	502	502	N/A	N/A	N/A	N/A
150%	502	502	502	N/A	N/A	N/A

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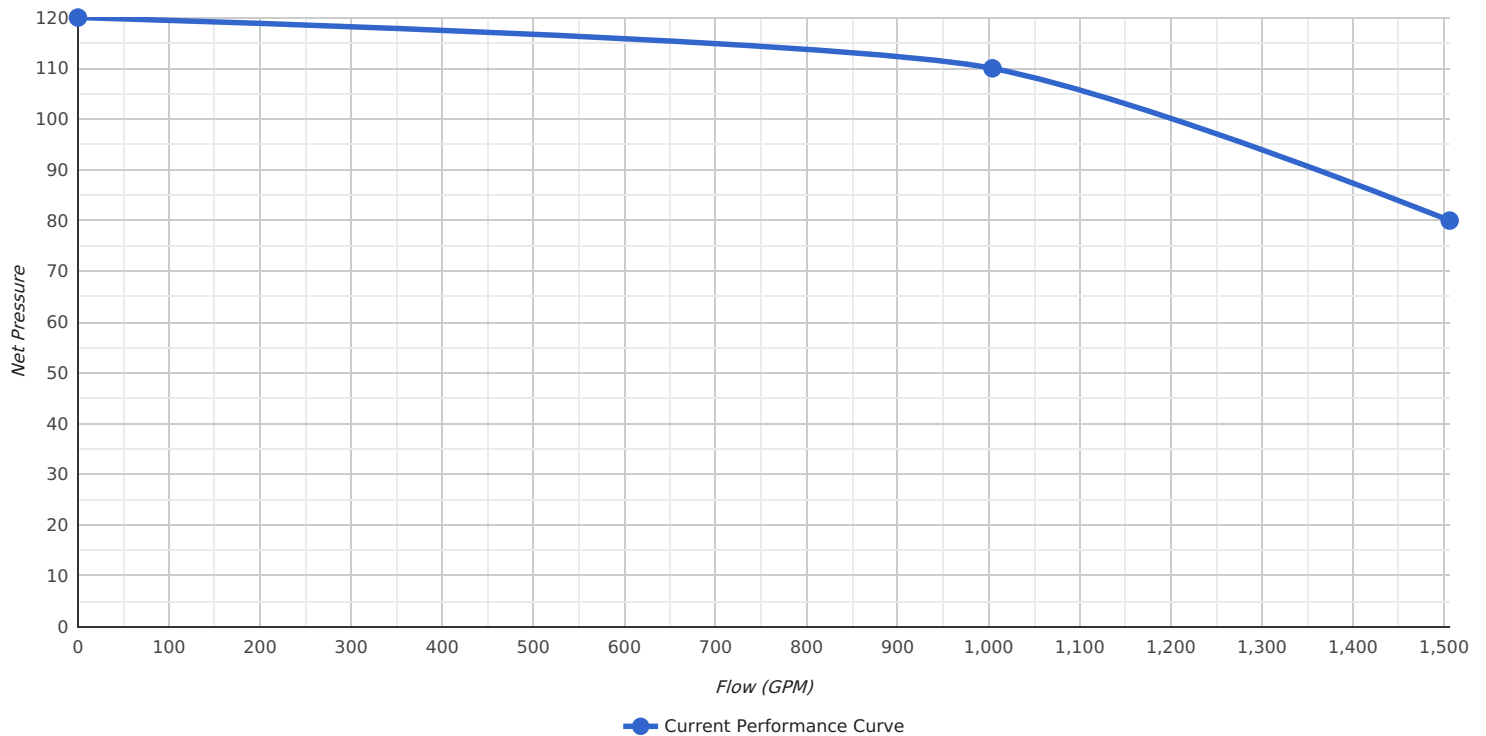
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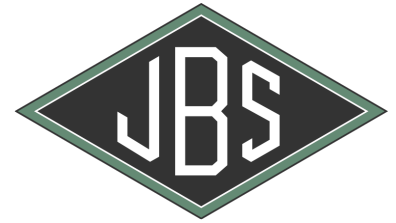
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Questions with Photos and Notes

Electric Pump - Controllers Power "ON"?

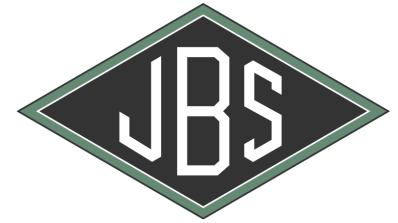
Yes

Notes:

Pump is on but Main power switch release is broken. Have to use alternate power switch to turn pump on and off

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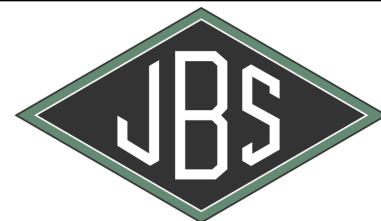
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Deficiencies - Electric Pump

None

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Inspector Signature

I state that the information on this form is correct at the time and place of my inspection, and all equipment tested at this time was left in operational condition upon completion of this inspection except as noted.

Inspector Name

Shannon Edwards

Signature

Date Completed

2021-10-17