UNDERWOOD_fire

COMPANY NAME:	BAKER COMMONS
ADDRESS:	106 PACKARD
CITY/STATE/ZIP:	ANN ARBOR, MICHIGAN 48104
CONTACT NAME:	ARBOR INSPECTION SERVICES
CONTACT PHONE:	734-761-8088

2023 ANNUAL FIRE PUMP TEST RECORD

UNDERWOOD FIRE EQUIPMENT, INC. 48216 FRANK STREET WIXOM, MICHIGAN 48393 PHONE: (855) 4-UFE-PUMP WWW.FIREPUMPS.COM MANUFACTURER: A-C FIRE PUMP MODEL NUMBER: 5x4 KSJF

SERIAL NUMBER: 811-90981-1-1

PUMP ID: BAKER COMMONS

SERVICE DATE: 9/29/23 TECHNICIAN: J WOLF

PUMP TYPE:HSC - ELECTRICPUMP CAPACITY:750DESIGN PRESSURE:62PUMP SPEED:1765SUCTION FLG. SIZE:5DI

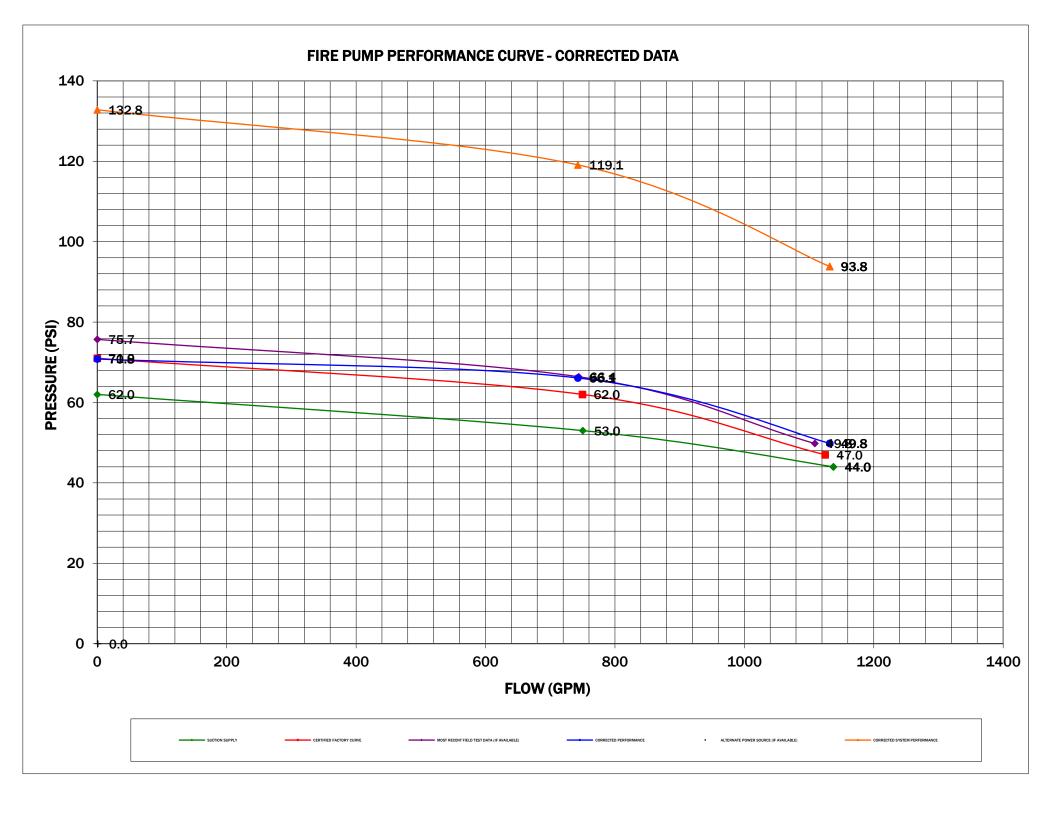
DISCHARGE FLG. SIZE: 4

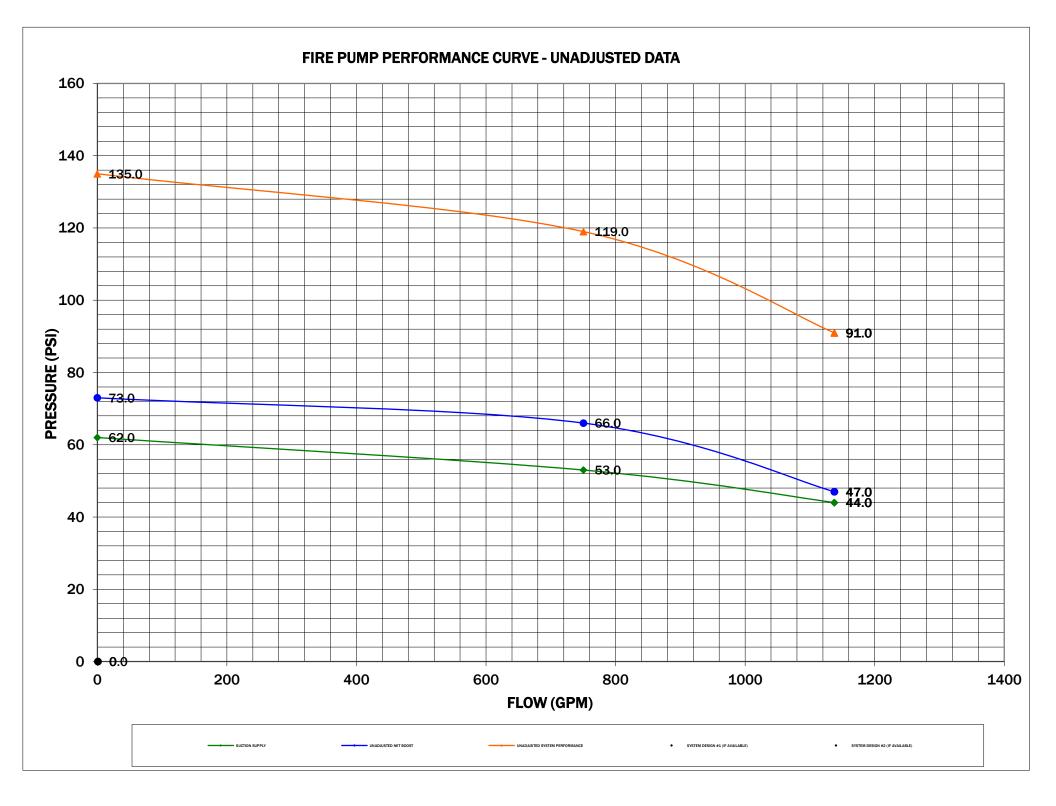
FIRE PUMP PERFORMANCE RECORD																							
FLOW POINT	START / STOP TIME	DISCHARGE (PSI)	SUCTION (PSI)	PUMP SPEED (RPM)	PHASE A AMPS	PHASE B AMPS	PHASE C AMPS	MOTOR OVERLOAD (YES/NO)	PHASE A-B VOLTS	PHASE A-C VOLTS	PHASE B-C VOLTS	OVER / UNDER VOLTAGE (YES/NO)	FIRE PUMP CASING TEMP. (ُF)	STUFF BOX TEMP. (°F)	STUFF BOX TEMP. (INBOARD BEARING TEMP. ([°] F)	OUTBOARD BEARING TEMP. ([°] F)	CASING RELIEF OPEN (YES/NO)	ACTUAL NET FLOW (GPM)	ACTUAL NET BOOST (PSI)	SPEED CORRECTED FLOW (GPM)	SPEED CORRECTED BOOST (PSI)	VELOCITY HEAD CORRECTED (PSI)
1		135	62	1792	58	56	58	NO	208	208	207	NO	72	75	78	74	75	YES	0	73.0	0	70.8	70.8
2		119	53	1783	87	88	92	NO	207	208	207	NO	66	84	82	77	79	NO	750	66.0	743	64.7	66.1
3		91	44	1774	107	105	109	NO	207	207	207	NO	65	82	83	79	81	NO	1138	47.0	1132	46.5	49.8
4																							
5																							
ALT. POWER																							
FLOW POINT	NOZZLE SIZE (INCHES)	HOSE REQ'D (FEET)	HOSE STREAM DIFFUSER (YES / NO)	DISCHARGE NOZZLE COEF.	PITOT #1 (PSI)	PITOT #2 (PSI)	PITOT #3 (PSI)	PITOT #4 (PSI)	PITOT #5 (PSI)	PITOT #6 (PSI)	PITOT #7 (PSI)	PITOT #8 (PSI)	PITOT #9 (PSI)	PITOT #10 (PSI)	PITOT #11 (PSI)	PITOT #12 (PSI)	FLOW METER (GPM)	TOTAL FLOW (GPM)	DEVIATION (%)	FIRE PUMP PERFORMANCE DATA			
1	2.5	N/A	N/A	0.9														0	-0.3		CERTIFIED FA	ACTORY CURV	Έ
2	2.5	N/A	N/A	0.9	5	5												750	5.6	FLOW (GPM)	0	750	1125
3	2.5	N/A	N/A	0.9	12	11												1138	6.2	BOOST (PSI)	71	62	47
4																				MOST RECENT FIELD TEST DATA			
5																				FLOW (GPM)	0	744	1109
ALT. POWER																				BOOST (PSI)	75.7	66.4	49.8
INTERPRETATION OF FIELD TEST RESULTS AND SERVICE RECOMMENDATIONS PER NFPA #25																							

AS COMPARED TO THE CERTIFIED FACTORY TEST CURVE, THE FIRE PUMP TESTED GOOD AT ALL POINTS FLOWED. THE REMOTE ALARMS AS REQUIRED BY NFPA 20 WERE CONNECTED INSIDE THE FIRE PUMP CONTROL PANEL AT THE TIME OF OUR TEST. WHILE ON SITE OUR TECHNICIAN NOTED THE JOCKEY PUMP POWER SUPPLY IS FED FROM THE FIRE PUMP CONTROL PANEL WHICH IS A VIOLATION OF NFPA 20 "A FIRE PUMP CONTROLLER SHALL NOT BE USED AS A JUNCTION BOX TO SUPPLY OTHER EQUIPMENT". NFPA ADVISES TO COMPLETE A NO FLOW TEST MONTHLY, WE RECOMMEND COMPLETING THIS TESTING IN AN ATTEMPT TO KEEP THE FIRE PUMP FROM BEING SEIZED.

TEST RATING

GOOD





VISUAL INSPECTION

SERVICE DATE:

9/29/23

NO

N/A

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UNDERWOOD_fire

			<u> PHONE: (855) 4-UFE-P</u>	UMP WWW.FIREPUMPS.COM	TECHNICIAN: J WOLF								
CON	MPANY NAME:	BAKER COMMONS	MANUFACTURER:	A-C FIRE PUMP	PUMP TYPE:	HSC - ELECTRIC							
	ADDRESS:	106 PACKARD	MODEL NUMBER:	5x4 KSJF	PUMP CAPACITY:	750							
CIT	Y/STATE/ZIP:	ANN ARBOR, MICHIGAN 48104	SERIAL NUMBER:	811-90981-1-1	DESIGN PRESSURE:	62							
co	NTACT NAME:	ARBOR INSPECTION SERVICES	PUMP ID:	BAKER COMMONS	PUMP SPEED:	1765							
CON	TACT PHONE:	734-761-8088											
							YES						
	FIRE PUMP ROOM VISUAL INSPECTION												
1	EQUIPMENT	IN OPERATING CONDITION AND FREE OF PHYS	SICAL DAMAGE?				\checkmark						
2	HEAT IS ADE	QUATE, NOT LESS THAN 40°F (4°C)?					\checkmark						
3	3 THE FIRE PUMP CONTROL PANEL DATA LOG DATE AND TIME IS ACCURATE?												
4	PUMP ROOM	IS CLEAN AND FREE OF STORAGE, EQUIPMEN	IT AND PENETRATIONS NOT	ESSENTIAL TO THE OPERATION (OF THE PUMP AND RELATED EQUIPMENT?		\checkmark						
5	PUMP ROOM	HAS ADEQUATE LIGHTING?											
6	6 VENTILATING LOUVERS ARE FREE TO OPERATE?												
7	NO EXCESSIV	/E WATER IS COLLECTING ON THE FLOOR?					\checkmark						
FIRE PUMP SYSTEM VISUAL INSPECTION													

UNDERWOOD FIRE EQUIPMENT, INC.

48216 FRANK STREET WIXOM, MICHIGAN 48393

8 SUCTION RESERVOIR HAS THE REQUIRED WATER LEVEL? √ \checkmark 9 WET PIT SUCTION SCREENS ARE UNOBSTRUCTED AND IN PLACE? ALL PIPING IS FREE OF LEAKS? 10 11 FIRE PUMP SUCTION AND DISCHARGE AND BYPASS VALVES ARE FULLY OPEN? 12 WATERFLOW TEST VALVES ARE IN THE CLOSED POSITION? 13 ALL VALVES EQUIPPED WITH A SEAL, LOCK, OR TAMPER SWITCH? SUCTION LINE PRESSURE GAUGE READING IS WITHIN ACCEPTABLE RANGE? 14 15 DISCHARGE LINE PRESSURE GAUGE READING IS WITHIN ACCEPTABLE RANGE? SHAFT MOVEMENT OR END PLAY IS ACCEPTABLE? 16 MECHANICAL TRANSMISSION LUBRICATE ALL-METAL TYPE COUPLING OR UNIVERSAL JOINT DRIVE SHAFT? 17 \checkmark \checkmark 18 LUBRICATE RIGHT ANGLE GEAR DRIVE? $\overline{\checkmark}$ **COUPLING GUARD IS IN PLACE?** 19 20 VERTICAL TURBINE ELECTRIC MOTOR OR RIGHT ANGLE GEAR DRIVE HAS ADEQUATE OIL LEVEL?

VISUAL INSPECTION

9/29/23

SERVICE DATE:

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WIXOM, MICHIGAN 48393

UNDERWOOD fire

			PHONE: (855) 4-UFE-P	UMP WWW.FIREPUMPS.COM	TECHNICIAN:	JWOLF				
CIT CO	ADDRESS: TY/STATE/ZIP: DNTACT NAME:	BAKER COMMONS 106 PACKARD ANN ARBOR, MICHIGAN 48104 ARBOR INSPECTION SERVICES 734-761-8088	MANUFACTURER: MODEL NUMBER: SERIAL NUMBER: PUMP ID:	5x4 KSJF	DESIG	PUMP TYPE: H MP CAPACITY: 7 N PRESSURE: 6 PUMP SPEED: 1	50 2			
			ELECTRICAL SYSTE	M VISUAL INSPECTION				YES	NO	N/A
21	CONTROLLER	R PILOT LIGHT (POWER ON) LIGHT IS ILLI						\checkmark		
22	TRANSFER S	WITCH NORMAL PILOT LIGHT, IF AVAILA	BLE, IS ILLUMINATED?					Π	Π	
23	ISOLATING S	WITCH IS CLOSED - STANDBY (EMERGEN	ICY) SOURCE?							
24	PHASE REVE	RSAL PILOT LIGHT IS OFF, OR NORMAL I	PHASE ROTATION PILOT LIGHT IS	ON?				\checkmark		
25	POWER TO P	PRESSURE MAINTENANCE (JOCKEY) PUM	P IS ACCEPTABLE (NOT BEING SUI	PPLIED FROM THE FIRE PUMP C	ONTROLLER)?					
26	FIRE PUMP C	CONTROL PANEL SUPERVISORY SIGNALS	SARE BEING MONITORED (RUN, PO	OWER LOSS, AND PHASE REVER	SAL OR RUN, TROUBLE, AN	d hoa not in au	TO)?	✓		
27	PRINTED CIR	RCUIT BOARD(S) ARE FREE FROM CORRO	ISION?					\checkmark		
28	CABLES AND		\checkmark							
29	PLUMBING (\checkmark								
			DIESEL ENGINE SYST	EM VISUAL INSPECTION				_		_
30		TANK IS AT LEAST 2/3 FULL?							Ц	✓ ✓ ✓
31		TANK LEVEL IS ELECTRONICALLY MONI								
32		TANK LEAK DETECTION SWITCH IS INST						Ц	Ц	\checkmark
33		CONTROL PANEL SELECTOR SWITCH IS IN							H	✓✓✓✓
34 35		LTAGE READINGS ARE WITHIN ACCEPTA RRENT READINGS ARE WITHIN ACCEPTA						H	H	
36		CONTROL PANEL BATTERY PILOT LIGHTS						H	H	
37		PILOT LIGHTS ARE OFF?						H	H	
38		INE HOUR METER IS PRESENT?						H	H	✓ ✓ ✓ ✓
39		LEVEL INDICATOR IS WORKING CORRECT	LY?					H	H	
40		EL CONNECTIONS AT THE ENGINE ARE FI						H	Н	
41		STEM CONDENSATE TRAP HAS BEEN DR						П	Н	
42		NNECTIONS ARE CLEAN AND TIGHT?						П	Н	$\overline{}$
43	ELECTROLYT	E LEVEL IN BATTERIES IN WITHIN ACCEP	TABLE RANGE?					П	П	✓ ✓ ✓ ✓
44	ENGINE WAT	TER JACKET HEATER (BLOCK HEATER) IS	OPERATING?							\checkmark