

7512 4th Avenue Lino Lakes, MN 55014 651-786-4463 800-EAM-3911

e-mail: service@eamservice.com website: www.eamservice.com

Emergency Vehicle Safety Inspection/Full Service Report CUSTOMER COPY

Customer Name	LAILE ELMO	
Date	7-21-15	
Unit No.	Engine 2	
Mileage	64, 987	
Engine Hours	3,718	

☒ Vehicle deficiencies are noted on this report.

The Reliability of Mechanical equipment is directly related to the quality and frequency of maintenance!

EAM-102

CHECK FOLLOWING ITEMS	Satisfactory	Require
Operation of starter	60	
Warning Devices, low oil, low air, low vacuum	BB	7.
Steering wheel play & column securement	1883	1.1
Operation of interior lights, switches & rear vision mirrors		345
Heater-Defroster controls	15/3	
Horn	BB	
Safety equipment	BB	
Window lifts & door latches	63	
Seat belts & cushions	BB	
Operation of wipers & windshield condition	683	
oot brake	BB	
Clutch pedal free travel	No	-
Operation of transmission	Bos	-
Speedometer & instruments	BNB	
Air governor for operation	BB	
Oil pressure @ high idle	BNS	
Maximum engine RPM	BB	
Jnusual engine noise	1313 1313 1315	100
One minute test for air leaks	123	-
All exterior lights	-	BI
Emergency Lighting	BAS	
Parking-Brake System	63	
Front bearing & king pins for looseness Steering arms & sector mounts for looseness	8B	
Front springs Lube front axle	BB	
Adjust brakes (air only) - Check Pedal Height (hydraulic)	Cos	
Drain oil	18/3	
Replace oil & fuel filter	13/3	
Refill crankcase	BB	
Crossmembers & frame for looseness, cracks	130	
Lube chassis complete	BB	
Clutch brake adjustment	MA	
Transmission oil level & leaks	13	-
Drain air tanks, inspect brake hoses & tubing, hydraulic/air	BB	
U-joints for play		
U-joint slip yoke	613	
Differential pinion bearing for looseness	130	
Rear springs, U-bolts, center bolts	813	-
Torque arms & bracket looseness & cracks	BVS	-
Rear brake drums & linings through inspection hole	813 813 813	-
All wheel seals for leaks	130	-
Differential oil level	(8V2)
Power divider oil level	MA	
Clean axle vents	BN	1
Cab mounts & bolts	BR	
Check coolant & nitrate levels		6
Pressure test cooling system	BB	1
Fan hub for looseness	BB	
Master cylinder fluid level	NA BB	
Water pump for leaks and looseness	1 16 12	-

Satisfactory Requires attn. Air compressor mounts SIB Air conditioning mounts & wires NA Alternator load test Volts \$3.8 Amps 84.1 1815 Alternator mounting brackets BB All belts Fuel lines for leaks Exhaust system 66 86 Service air cleaner BB Clean & check battery cables Battery water level, hold downs & cover BB Battery load test #1 11.2 #2 11.0 #3 11.2 #4 11.8 60 Check all hoses, condition & leaks Check & fill steering sector Install service sticker RUN ENGINE AND CHECK FOLLOWING Air cleaner restriction Air filter for leaks Retighten drain plug Recheck oil level Lube door hinges & locks, check latch timing Lube seat mechanism Fuel tank straps, mounts, caps & crossover line protection Mud flap brackets Wheel bearing reservoirs for correct level Visually check exposed wheel nuts, studs, lock rings & rims for cracks or looseness Axle flange nuts & gaskets Tread depth RF 14/32 LF 19/32 RRI 15/32 RRO 14/32 LRI 17/32 LRO 14/32 RRRI RRRO LRRI LRRO Meets DOT requirements AB Tire Pressure RF 100 LF RRI 100 RRO DO LRI 65 LRO 85 AIN LR.S. OB GENERATOR SERVICE Satisfactory Requires HYDRAULIC GENERATOR SYSTEM Replace hydraulic filter & fluid Change oil & refill crankcase BB Replace oil filters Check fluid level Replace fuel filters Inspect wiring BAS Check generator mounts Inspect generator mounts & trays Retighten drain, recheck oil level Inspect hydraulic pump and PTO mounting Check exhaust & air filter systems Remove hydraulic pump on direct mounts & inspect/lube drive splines Clean cooling system Inspect all hydraulic hoses & fittings Positive Pressure Fan Hydraulic Rescue Tool Change oil and refill crankcase Change oil and refill crankcase Replace fuel filter Replace fuel filter Visually inspect fan blades Visually inspect all hoses & couplings Visually inspect all guards Check engine mounts Visually inspect drive belts Check hydraulic fluid level Check exhaust & air filter systems Check engine mounts Check stabilizer feet Check exhaust & air filter systems Vehicle Deficiencies listed on Back Certification Number 928679 Inspector's Signature JP-F2C

UNDER CHASSIS - FRONT END RAISED (CON'T)

Fire Pumps and Accessories

Maintenance Report

	Operation Completed	Foam Pro	Operation Completed
Pump Transmission		Inspect Wiring, Hoses	
Change Oil, and Filter if applicable	60	Flowmeters & Connections	
Outboard bearing/		For Tightness, Corrosion, Leaks	
Lubricate or check oil Level if applicable	e 1315	And/or Damage	
Transfer Valve Lubricate	1815	Foam Strainer screen	
Shift Unit			
Check Oil Level and Lubricate all Linkage	BB	Remove and Clean	
Priming System		1600 Series	
Check Pump & Motor Mounts		Cam Bearing Grease Fitting	
Oil Motor, Check Tank Oil Level & Fill		Lubricate With a Manual Grease Gun	
Check Motor Coupling		Cam Bearing	
Lubricate Priming Valve & Linkage	RAS	Lubricate Cam Surface	1
Discharge, Suction & Drain Valves		2001/2002 Series	
Operate & Lubricate	BB	Gear Case Drain & Refill Using	
Pilot Valve Clean Screen and Orifice	3	SAE30 Non-Detergent Oil	
Flush and Insure Water Flow			
Stops In Off Position	(30)	Compressed Air Foam Syste	m
Conduct Dry Vacuum Test		Compressor	
Max Vacuum Achieved 22		Change Oil & Filter	
Vacuum Drop		Use ISO 68 Hydraulic Oil	
Pass Fail	BB	Polychain & Clutch	
Test Run pump, Operate Relief &			
Transfer Valve		Visually Check	
Check Packing Drip Rate mech. seals	BB	Air/Oil Separator	
Officer I acking brip flate freeze seems		Change Cartridge every 24 months	
Operation Completed		Air Intake System and Filter	
High Pressure Pump		Check	
Pump Crankcase change oil		Water Strainer	
Relief Valve Lubricate & Inspect		Check	100
Hose Reels Lubricate & Inspect		B 111 B 0 1	
Nozzle Guns Lubricate & Inspect		Portable Pump Service	
PTO Cable Lubricate & Inspect		Change oil and refill crankcase	-
PTO Driveshaft & Pillow Blocks		Replace oil filter	
		Replace fuel filter	
Inspect And Lubricate Inlet Strainer Clean & Inspect		Check engine & pump mounts	- 7
		Change pump oil	
Check Drive Belt(s)		Check exhaust & air filter systems	
Test Run Insure Smooth Flow			
Equipme	ent Deficie	ncies listed below	
1) LI compartment upper 1	isht out	12 tout to some I tout fill less	lave-
2) 13 compartment lights out	Chad switch	3° ol Vlac	+- 1/4 cate
B) cenerator"	I lad switch		. 0
4) right the step light out a	- tail board	I marker light out.	
5) RZ lower compartment lig	INT OUT		
6) right pump panel lights out.	Lout loft	parel	
I coolant Filter hoysing shot a		rozen open	distribution of the
& air filter should be replace	1 1	ust # 87491	
(1) relief value stuck closes		(dove)	
10) #1 discharge linkage over exten		- \ '	
DE CONTROLLE CONTROLLES CONTROLLE	Charles and Company	p (2) generator overfueling	

Invoice



Send Payment To:

Emergency Apparatus Maintenance, Inc.

7512 4th Avenue

Lino Lakes, MN 55014

TEL: 651.786.4463 · 1.800.EAM.3911

FAX: 651.786.0517

EML: service@eamservice.com

Work Order:

81919

Type:

Service

WO Date:

07/20/2015

Invoiced:

07/29/2015

PO:

Reference:

Accounts Payable Lake Elmo Fire Department 3800 Laverne Ave No. Lake Elmo, MN 55042

Amount Due:

\$1,065.00

Terms: Net 30 Days

Service Summary

Engine 2 (3173)

Miles: 64987

Hours: 3718

Request

1 NFPA Pump Test.

- NFPA Pump Test Completed. Passed all phases.
- Service Pump per EAM Pump Service Report.
- Service Pump per EAM Pump Service Report Completed. 2.1
- 3 Full Service/Emergency Vehicle Safety Inspection.
- Service Truck Completed. 3.1

4 Service Generator.

Service Generator - Completed. Crankcase was overfull of gas/oil mixture, 4.1 creating a large mess when fill plug was removed - cleaned up. Ran generator after servicing for 1/2 hour with no issues, checked oil level good.

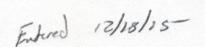
Work Completed

Parts Installed & Summary of Charges

Qty	Price	Total	Part	Part Number	Summary of Cl	harges
1.0	\$0.00	\$0.00	Oil Filter (1748)	1748	Quoted Labor Total Labor	\$825.00 \$825.00
1.0	\$0.00	\$0.00	Fuel Filter (3405)	3405	Quoted Parts	\$240.00
40.0	\$0.00	\$0.00	15W-40 Oil	15w/40	Total Parts	\$240.00
12.0	\$0.00	\$0.00	Automatic Transmission Fluid, Quart	Dextron III	Total Accessories	\$0.00
1.0	\$0.00	\$0.00	Oil Filter (1516)	1516	Environmental	\$0.00
4.0	\$0.00	\$0.00	10/30, Oil, Quart	10/30	Charges Pump Service	\$0.00
					Pump Test	\$0.00
					Subtotal:	\$1,065.00
					Tax:	\$0.00
					Total:	\$1,065.0

The following items are awaiting customer approval before repairs are made. Please call Emergency Apparatus Maintenance. NOTE:

- L-1 Compartment upper light out. 1
- L-3 Compartment lights out, bad switch. 2



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NOTE: The following items are awaiting customer approval before repairs are made. Please call Emergency Apparatus Maintenance.

- 3 Generator compartment lights out, bad switch.
- 4 Right step light out on tailboard, 1 marker light out.
- 5 R-2 Lower compartment light out.
- 6 Right pump panel lights out, 1 out left panel.
- 7 Coolant filter housing shut off valve frozen open.
- 8 Air filter should be replaced Carquest #87491.
- 9 #1 Discharge linkage over extends.
- 10 Generator overfueling.
- Tank to pump/tank fill leaking 3" Elkhart, 1-1/2" gate.

Pump Test Certification Results



Department: Lake Elmo Fire Department

Vehicle: Engine 2 (3173)

Barometer (mmHg):

Make: Navistar Year: 1990 Model: 2674 64987 Miles: **Engine: Governed Speed:** 2425 1250 **Pump Make:** Waterous **Pump Capacity:**

Pump Model: CMYBX Pump S/N: 21139W

Test Date: Test Time: 11:16:00 07/22/2015 Ambient Temperature (°F): 80 **PASSED** Water Temperature (°F): 87

30.01

		Cui	mulative Test D	Pata
	Capacity	200 PSI	250 PSI	
Gallons Per Minute:	1250	875	625	
R.P.M. Calibrated:	1659	1802	1586	
R.P.M. Engine:	1600	1800	1550	
R.P.M. Panel:	1100	1300	1100	
Net Pump Pressure:	150	200	250	
Correction Factor:	4	3	2	1250 GPM @ 150 PSI @ 1659 RPM Volume
Pump Pressure:	146	197	248	875 GPM @ 200 PSI @ 1802 RPM Volume
Pump Suction:	7	3	2	625 GPM @ 250 PSI @ 1586 RPM Pressure

Pressure	Operates Properly	PSI Increase
150 PSI	YES	13
90 PSI	YES	10
250 PSI	YES	8

Pump Packing Drip Rate:	0
Vacuum Achieved:	22
Vacuum Drop:	2

CF

200 PSI Test Raw Data

Mode

Tip

Priming Test	70 A 17
Suction Diameter:	6
Suction Length:	20
Suction Lift:	2
Time:	7

Capacity Test Raw Data			
Tip	Mode	CF	
2 1/4"	Volume	4	
1	Fachometer		
Cab	Panel		
1659		1100	
Pi	ump Gauge	s	
Pressure		Compound	
145		6	
1	Test Gauges	;	
Pressure		Vacuum	
146		7	
	Calibrated		
Time	RPM	PITOT	
11:16:00	1658	69	
11:21:00	1662	69	

1654

1662

1660

69

69 69

	achometer	
Cab		Panel
1802		1300
Pu	mp Gauges	
Pressure	C	ompound
195		5
T	est Gauges	
Pressure		Vacuum
197		3
	Calibrated	
Time	RPM	PITOT
11:41:00	1800	55
11:46:00	1804	55
11:51:00	1802	55

Tip	Mode	CF	
1 1/2"	Pressure	2	
	Tachomet	er	
Cab		Panel	
1586		1100	
P	ump Gaug	jes	
Pressure		Compound	
249		5	
	Test Gaug	es	
Pressure		Vacuum	
248		2	
	Calibrate	d	
Time	RPM	PITOT	
11:56:00	1588	88	
12:01:00	1588	88	
12:06:00	1584	88	

Technician: Bill Bothman

11:26:00

11:31:00

11:36:00

Work Order: 81919

Printed:

7/29/2015