

FIRE ENGINE MAINTENANCE PROCEDURE AND RECORD



LICENSE: _____

DUTY STATION: _____

ENGINE IDENTIFICATION NUMBER: _____

FIRE ENGINE MAINTENANCE PROCEDURE AND RECORD PREFACE

The Fire Engine Maintenance Procedure and Record book was created by a development group with direction from the National Interagency Fire Center (NIFC) National Fire and Aviation Training Support Group. The primary developers in this effort were:

Al Olson	BLM	Elden Alexander	BLM
Larry Sutton	BLM	Bill Swann	BLM
Ken Shaver	BLM	Steve Loucks	BLM
Jason Simmons	BLM	Tim Taggart	BLM

The National Fire and Aviation Training Support Group appreciates the efforts of all contributors to the design and development of this product.

Please consider this first year edition (May 1999) as a dynamic document and make recommendations accordingly. Suggestions for improvements or changes are welcome. You may use the evaluation sheet attached with the document.

Please forward questions, comments, or corrections to

Paul Hefner
3833 S. Development Way
Boise, ID 83705
Lotus Notes address: paul_hefner@nifc.blm.gov

Or to the:

National Interagency Fire Center
National Fire and Aviation Training Support Group
Attn: BLM Training
3833 South Development Way
Boise, Idaho 83705

**FIRE ENGINE MAINTENANCE PROCEDURE AND RECORD
COMMENT FORM**

Name/Office:

Page Number/Section Comments Relate to:

Subject:

Comments:

TABLE OF CONTENTS

How To Use the Fire Engine Maintenance Procedure and Record	vii
I. Fire Engine and Pump Package Data	1
II. Fire Engine Weights	3
III. Radio Installation and Maintenance	4
IV. Inspection and Service Intervals	5
V. Daily Fire Engine Inspection Instructions	5
VI. Periodic/Post Fire Instructions	8
VII. Pump Maintenance Service Instructions	9
VIII. 3000 Mile Service Instructions	11
IX. Annual Service Instructions	12
X. Winterization Instructions	14
Appendices	
Appendix A: Fire Engine Preventative Maintenance Checklist	A-1
Appendix B: Form 1520-35	B-1
Appendix C: Winterization Checklist	C-1
Appendix D: Pump Test Record	D-1
Appendix E: Repair Record	E-1
Appendix F: Engine Service Log	F-1

How To Use the Fire Engine Maintenance Procedure and Record Book

This book has been developed for you to use as a guide to perform routine maintenance on a BLM fire engine. Duties described as “daily,” or “as needed” are recommendations by the development group. However, if local protocol dictates that some tasks are done more often, or less, then local standards should be followed. This document is to be used for both the “Heavy” and “Light” engines; some instructions are specific to each type individually. Skip the task if it does not pertain to the engine you are using.

The appendices located in this book are to be used solely as a reference document. Additional copies of the documents to be used in the field can be obtained at the B.L.M. training web page or make copies of the ones provided.

Line number on the Daily Fire Engine Inspection Checklist (Appendix A) corresponds with line number in the Fire Engine Preventative Maintenance Daily Inspection Instructions. Use the instructions as a guide for your Daily Inspection.

The Pump Test Record is included in this guide to provide you an area to document pump performance and trend. There are various methods used in the testing of pump performance, whichever method is used should be consistent and done on a routine basis. The development group does recommend the following pump test:

Using the 1 ½ overboard discharge nearest to the pump, assemble a ¾ inch, ⅜ diameter nozzle tip (NFES 0638) on the 1 ½ discharge. You will need to use the appropriate reducers to do this. With the valve to the 1 ½ discharge open, throttle the pump to max P.S.I. output. Record the P.S.I. gauge reading in the Pump Test Log. To record maximum (max) pump G.P.M. refer test results to the Water Equipment Handling Guide (Fourth Edition), Appendix 2 (Nozzle Flow Rates.) This test will track pump trend. Any decline in pump P.S.I. output will alert the operator of potential pump problems and/or unacceptable G.P.M. output. The development group selected this test for ease of performing and availability of testing equipment.

I. FIRE ENGINE AND PUMP PACKAGE DATA

This section needs to be filled out and kept current for the life of the engine. This information is needed by mechanics and engine module members when repairing or servicing the engine.

VEHICLE DATA

License_____Eng_____Make_____Model_____

Year_____Serial No._____

Eng: Mfr/Model_____Crankcase Cap. Qts._____Wt._____

Coolant Cap. Qts._____Water Filter_____Air Filter(Primary)_____

Air Filter(Secondary)_____Fuel Filter(Primary)_____

Fuel Filter(Secondary)_____Oil Filter_____Battery Group_____

Tire Size_____Ply Rating_____Pressure_____

Fan Belts_____P/S Belt_____Alternator Belt_____

Air Comp. Belt_____Other belts_____

Transmission Type_____Serial No._____

Diff. Type and Ratio_____

Buildup Mfg._____Date Placed In Service_____

PUMP PACKAGE DATA

Pump Make_____Model_____

Rating_____GPM @ 150 PSI

Pump Engine Mfg._____Model_____

III. RADIO INSTALLATION AND PREVENTATIVE MAINTENANCE

Inspect after installation and at the Annual Inspection.

Radio unit should be turned off before mechanical inspection is started.

A. TRANSMITTER-RECEIVER (T/R) CHASSIS MOUNTING AREA

1. Tighten loose mounting hardware.
2. Check that the T/R unit is locked into the housing.
3. Check that the cable connector is firmly inserted into the T/R unit connector.
4. Check that the antenna cable connector is finger tight.
5. Check to see that there is free space around the T/R chassis for ventilation.

B. ANTENNA

1. Check that the whip is firmly secured.
2. Check that the base is firmly mounted.
3. If visible, check the cable connections to the base for cleanliness and tightness.

C. CONTROL HEAD/SPEAKER

1. Tighten loose mounting hardware.
2. Check that the cables are routed and secured under the dash in a manner which prevents the operators feet from entanglement with the wires.
3. Check for missing or damaged knobs and switches.
4. Switches should operate smoothly without jamming.

D. MICROPHONE

1. Check for frayed cable.
2. Push-to-talk button should operate smoothly.
3. Microphone hanger should be firmly mounted.

E. UNDER THE HOOD

1. Check that the wires are protected from exhaust manifold, sharp edges, and moving parts.
2. Check connections for cleanliness and tightness.
3. Wires passing through the fire wall should be protected from fraying by a grommet in the hole.
4. Battery connections should be clean and tight.
5. Check condition of fuses and holders.

IV. INSPECTION AND SERVICE INTERVALS

A system of complete service and inspections covering all operating components of the Fire Engine provides the basic preventative maintenance tool. These inspections and corrective actions are designed for an emergency fleet where use dictates maintenance levels at a much higher degree than conventional oil change and lubrication intervals.

A. DAILY FIRE ENGINE INSPECTION

1. Periodic/Post Fire
2. Pump Maintenance

B. 3000 MILE SERVICE

C. ANNUAL SERVICE

D. WINTERIZATION

V. DAILY FIRE ENGINE INSPECTION INSTRUCTIONS

This list of instructions corresponds with the Daily Fire Engine Inspection Checklist found in Appendix A. Use this list as a guide during inspections.

1. Oil - Check fluid levels and add if needed.
2. Coolant - Check fluid levels and add if needed.
3. Power Steering - Check fluid levels and add if needed.

4. Automatic Transmission Fluid - Check transmission fluid according to manufacturer's guidelines.
5. Fan Belts - Check belts for wear, frays, tension, or cracks.
6. Air Cleaners - Carefully inspect mounting brackets, inlet hose connections, and fittings. Inspect gasket and sealing surface areas. Replace service element, if needed.
7. Hoses - Check for signs of wear, cracks or leaks. Check clamps.
8. Leaks - Check for signs of dripping fluids around major components of the Fire Engine.
9. Batteries - Check that battery (s) is secure, connections are tight, cell caps are present. Battery connections should not be excessively corroded. Battery box and cover must be secure.
10. Fuel Tank - Make sure it is full and securely mounted.
11. Hydraulic Oil (if applicable) - Check level of fluid ; add if needed.
12. Air Tanks - Check for moisture and bleed if necessary. Inspect mounting brackets.
13. Slack Adjusters - Inspect for excessive play in the brake assembly (adjust to manufacturer's specifications). Check for broken, loose or missing parts.
14. Parking Brake - Check for proper operation; ensure vehicle doesn't move when brake is set.
15. Air Brake Check - Performed in accordance with D.O.T. (CDL) standards.
16. Tires - Check tread depth and wear, sidewall damage, and tire pressure. Ensure that tires are matched. Check spare. Check condition of mud flaps.

17. Hubs and Lug Nuts - Check for leaks and proper operation of manual hubs. Inspect rims for damage and proper mounting. Ensure lug nuts are present and tight.
18. Undercarriage - Check for loose bolts, hanging wires, exhaust system, leaks, broken parts, steering components, drive train, shock absorber, free of debris, springs and spring shackles, body mounts, cross members, etc.
19. Cabinet Locks - Check for operation.
20. General Condition - Clean and orderly appearance (both internal and external). Agency emblems, decals, equipment numbers and license plates present and in good condition.
21. Start Engine - Leave engine running for electrical checks.
22. Lights/Signals - Check headlights, brake lights, running lights, emergency lights, turn signals, back-up lights, work lights, panel lights, cabinet lights, dome and dash lights, etc. and replace bulbs as necessary.
23. Mirrors/Glass - Check for cleanliness, cracks, chips, and damaged brackets or mounts. Ensure proper adjustment.
24. Back-up Alarm - Operational.
25. Gauges - All gauges should be operational. Any non-functioning gauges should be reported.
26. 2-Way Radio/P.A. - Perform a radio check to see if radio receives and transmits. Check to see if it is securely mounted and speakers are functional.
27. Wipers/Washers - Check condition, reservoir level, and operation.
28. Horn - Check operation, mounting brackets, and air horn.
29. Seat Belts - Clean, secure, accessible, and operational.

30. Heater & AC - Check fan, defroster, vents, and controls.
31. Log Book - Current, neat and available. Check for credit card, receipts and proper charge codes.
32. Accident Forms - Contained within the DI-135:DI-134, SF-91, SF-94, CA-1, OF-26 and the S-43. Ensure all forms are in the DI-135.
33. Fire Extinguisher - Securely mounted, pins in place, inspection current, tagged, reflective marker on the extinguisher, and charged.
34. First Aid Kit(s) - Maintained, updated, and clearly marked.
35. Reflector Set - Available and operational.
36. Wheel Chocks - In place and accessible.
37. Jack/Lug Wrench - Compatible with vehicle and proper sized jack.
38. N.U.S - Check for missing or damaged items, replace if necessary.

VI. PERIODIC/POST FIRE SERVICE INSTRUCTIONS

This list of instructions corresponds with the Daily Fire Engine Inspection Checklist found in Appendix A. Use this list as a guide during inspections.

CAB & CHASSIS

1. Differential Oil Level - Full of proper weight lubricant. Plugs are tight.
2. Transfer Case Oil Level - Full of proper weight lubricant. Plugs are tight.
3. Check Drive Lines - Check for damage and wear.
4. Manual Transmission Fluid - Full of proper weight lubricant. Plugs are tight.

5. Check N.U.S. - All items specified as minimums in “Standards for Fire Operations” are on board, clean and functional.

PUMP PACKAGE

1. Change Oil and Filter - Per manufacturer’s specs or local standards (if more stringent.)
2. Check Pump Motor Mounts - Secure and in place.
3. Check Water Tank Mounts - Secure and in place.
4. Check Spark Plugs - Electrode and proper gap; clean; replace as needed.
5. Fuel Filter - Inspect; replace as needed.
6. Inspect Drive Belts - Examine for wear, frays or cracks; ensure proper tension.
7. Air Cleaner - Clean or change as needed.
8. General Appearance - Clean Pump Package; cooling fins clean.
9. Pump Performance Test - Perform pump pressure and flow test at discharge nearest to pump; record results.
10. Lubricate Pump Head - Per manufacturer’s specs or local standards (if more stringent.)
11. Foam Proportioner - Check operation, follow manufacturers guidelines for flushing and maintenance. Refill with foam if needed.

VII. PUMP MAINTENANCE SERVICE INSTRUCTIONS

This list of instructions corresponds with the Daily Fire Engine Inspection Checklist found in Appendix A. Use this list as a guide during inspections.

DAILY:

1. Check oil levels; add if needed.
2. Inspect primary and secondary air filters; clean or replace as needed.
3. Inspect and lubricate throttle and choke cables.
4. All gauges operational; panel lights working.
5. Pressure shutdown switch operational.
6. Fuel tank full; Check for debris and rust.
7. All valves operational.
8. Coolant levels correct.

AS NEEDED:

1. Lubricate pump head and hose reel per manufacturer's specifications.
2. Lubricate valve controls.

POST-FIRE: (Conduct daily check plus items below)

1. Flush foam system.
2. Refill foam system.
3. Examine strainer; clean if needed.
4. Fill fuel tank.
5. Clean pump package thoroughly.

MONTHLY:

1. Change oil and filter per manufacturer's specifications.
2. Inspect spark plugs; replace as needed.
3. Inspect fuel filter; replace as needed.
4. Inspect drive belt; replace as needed (for belt-driven models.)
5. Clean/replace air filter.
6. Clean unit thoroughly, i.e., fan housing, etc.
7. Conduct pump performance test (flow test and/or pressure test.)

VIII. 3,000 MILE SERVICE

It is highly recommended that service intervals be reduced as conditions warrant (post-fire, severe conditions, etc.)

A. OIL CHANGE

Drain main engine, auxiliary engine, and pump gear boxes which use oil. Fill crankcases and gear boxes with correct type and grade of oil. Capacities are noted on the Fire Engine Data page. Oil changes should be made when the engine is warm.

B. OIL FILTER

Canister Type: Drain canister, remove dirty filter cartridge and discard, thoroughly clean canister. Install new filter cartridge, install new cover gasket (lubricate gasket surface lightly), examine carefully for leaks with engine running. Add oil if necessary.

Spin-On Type: Remove spin-on type filter assembly and discard. Thoroughly clean filter base. Install new filter assembly after lubricating gasket surface lightly. Examine carefully for leaks with engine running. Add oil if necessary. **Do not over-tighten spin-on type oil filters.**

C. LUBRICATION

Lubricate entire chassis. Check oil level in all transmissions, transfer cases, differentials, steering gear boxes, hydraulic tanks and pump primer reservoir. Lubricate door locks, striker plates, hinges, engine accessories, fire pump and pump engine accessories. Check pump gear boxes and electric two-speed axles. Before lubricating front axle, raise front of vehicle off the ground. **Do not lubricate front axle steering knuckles on four-wheel drive vehicles.**

D. AIR CLEANER

Carefully inspect mounting brackets, inlet hose connections, and fittings. Inspect gasket and sealing surface areas. Clean or replace service element.

E. FUEL SYSTEM

Service water separator as per manufacturers recommendations.
Change fuel filters annually or more often under severe conditions.

IX. ANNUAL SERVICE (Refer to Appendix B for Form 1520-35)

A. PRE-INSPECTION ROAD TEST

This should include driving the vehicle, foot brake, parking brake, steering, starter, transmission, clutch, gauges noises.

B. WHEEL BEARINGS AND HUBS

Clean, inspect, and re-pack wheel bearings and hubs. Check wheel seals for leaks or damage. Perform at intervals recommended by the manufacturer or more often under severe conditions.

C. AXLES AND DIFFERENTIALS

Drain and refill with correct lubricants to the proper level. Visually check ring gears, pinion gear, and differential side gears.

D. TRANSFER CASE AND TRANSMISSION

Drain and refill with correct lubricant to proper level. Inspect mounts and seals.

Manual Transmission and Transfer Case - remove inspection plates; visually inspect gears and bearings. Inspect and adjust clutch as needed.

Automatic Transmission - Remove pan, inspect transmission, and service all filters.

E. DRIVE LINES AND U-JOINTS

Clean, inspect, lubricate, balance or replace as per manufacturer's recommendations or as severity of conditions dictate.

F. STEERING COMPONENTS

Inspect steering gear box, steering components, lubricate and replace seals as needed.

G. BRAKES

Examine brake lining and drums, pads and rotors, wheel cylinders, master cylinder, brake booster, Accumulock (where applicable), examine brake compressor, mounts, air lines, parking brake cable, and parking brake lining. Inspect “S” cam, shaft, and bushings for wear, inspect wedge assemblies and airbrake chambers and repair as required. Inspect all brake components and repair as required. Adjust all brakes.

H. ENGINE TUNE-UP

Check emission control systems and repair as required to bring the vehicle into compliance. Major engine tune-up to be performed as severity of conditions dictate or as per the manufacturer’s preventative maintenance recommendations. Check fuel delivery systems; clean, overhaul or adjust as required. Replace fuel filters and water separator filter annually or more often under severe conditions. Check turbo-charger.

I. COOLING SYSTEM

Examine radiator, hose connections, coolant recovery tank and water pump for leaks. Check fan belt for wear and adjustment. Clean radiator core (external) if dirty. Examine radiator pressure cap. Check condition of coolant. Examine automatic transmission heat exchanger oil lines for leaks or damage. Change coolant filter, if applicable.

Coolant must be changed and flushed every two years. If engine overhauled, radiator shall be removed and completely overhauled.

J. FRAME AND SUSPENSION

Visually inspect fire package mounting brackets, springs, mounts, shocks, hangers and replace as needed. Perform four-wheel alignment.

K. EXHAUST SYSTEM

Check and inspect exhaust system.

L. AIR CONDITIONING SYSTEM

Inspect and recharge as necessary.

M. POST-VEHICLE INSPECTION ROAD TEST

Additional services may be necessary according to operator's manual

X. WINTERIZATION INSTRUCTIONS (Refer to Appendix C for Winterization Checklist)

Winterization process should be followed any time the Fire Engine is exposed to freezing temperatures. During short periods of exposure to freezing conditions a full winterization need not be completed, however some precautions need to be taken to prevent damage to the pump and plumbing. Full winterization is for periods of prolonged exposure.

APPENDIX A



Department of the Interior • Bureau of Land Management

ENGINE #:

DAILY FIRE ENGINE INSPECTION CHECKLIST

DATE							
MILEAGE							
Cab & Chassis							
1. Oil							
2. Coolant							
3. Power Steering							
4. Automatic Transmission Fluid							
5. Fan Belts							
6. Air Cleaners							
7. Hoses							
8. Leaks							
9. Batteries							
10. Fuel Tank Full							
11. Hydraulic Oil							
12. Air Tanks							
13. Slack Adjusters							
14. Parking Brake							
15. Air Brake Check							
16. Tires							
17. Hubs/Lug Nuts							
18. Undercarriage							
19. Cabinet Locks							
20. General Condition							
21. Start Engine							
Remarks							

22. Lights/Signals							
23. Mirrors/Glass							
24. Back-up Alarm							
25. Gauges							
26. 2-Way Radio/P.A.							
27. Wipers/ Washers							
28. Horn							
29. Seat Belts							
30. Heater/AC							
31. Log Book							
32. Accident Forms							
33. Fire Extinguisher							
34. First Aid Kit							
35. Reflector Set							
36. Wheel Chocks							
37. Jack/Lug Wrench							
38. N.U.S.							
Pump Package							
1. Water Tank Full							
2. Valves							
3. Coolant							
4. Oil Level							
5. Fuel Tank Full							
6. Air Cleaners							
7. 5 Minute Warmup							
8. All Gauges							
9. Override Switch							
10. Live Reels							
11. Primer							
12. Foam Proportioner							
Remarks							

Periodic/Post-Fire

Cab/Chassis							
1. Differential Oil Level							
2. Transfer Case Oil Level							
3. Check Drive Lines							
4. Slack Adjusters							
5. Parking Brake							
6. Air Brake Check							
7. Manual Transmission Fluid							
8. Check N.U.S.							
Pump Package							
1. Check Service Log for oil and filter							
2. Check Pump Motor Mounts							
3. Check Water Tank Mounts							
4. Check Spark Plugs							
5. Fuel Filter							
6. Inspect Drive Belts							
7. Clean/ Change Air Filter							
8. General Appearance							
9. Pump Performance Test							
10. Lubricate Pump Head							
11. Foam Proportioner							
Remarks							

APPENDIX B

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Property Number

Speedometer Reading

ANNUAL MOTOR VEHICLE MAINTENANCE/SAFETY CHECKLIST

State		District		Type of vehicle		License number			
ITEM	SATIS- FAC- TORY	UNSAT- ISFAC- TORY	ITEM	SATIS- FAC- TORY	UNSAT- ISFAC- TORY	ITEM	SATIS- FAC- TORY	UNSAT- ISFAC- TORY	
VEHICLE EXTERIOR			ROAD TEST			UNDER VEHICLE (CON)			
Paint			Hand Brake			U-Joints			
Winch			Foot Brake			Differential			
Bumper			Steering			Exhaust System			
Fenders			Starter			Mud Flaps			
Cab			Transmission						
Body, Bed, or Rack			Clutch						
Tire Camber			Gauges						
Spare Tire			Noises			UNDER HOOD			
						Wiring			
						Heat Valve			
						Ignition			
						Spark Plugs			
VEHICLE INTERIOR			UNDER VEHICLE			Fuel Lines			
Doors			Steering Gear			Oil Lines			
Glass			King Pins			Fuel Pump			
Mirrors			Turn Stops			Carburetor			
Wipers			Tie Rod			Motor Mounts			
Washers			Axle Joints (4x4)			Rings			
Heater			Cab Mounts			Valves			
Defrosters			Shock Absorbers			Compression Test			
Lights			Suspension			1	2	3	4
Turn Signals			Tires			5	6	7	8
Horn			Wheels			Oil Level			
Seat Cushions			Brake Lining			Coolant Level			
Seat Belts			Brake Cylinders			Power Steer. Fluid Level			
Extinguisher			Brake Lines			Brake Fluid			
First Aid Kit			Frame			Transmission Fluid			
Jack & Lug Wrench			Leads			Belts			
			Axles			Battery & Cables			
			Clutch			Hoses			
			Transmission						
			Transfer Case						
			Drive Lines						

Remarks (for additional remarks, use reverse.)

Inspected by	Date
--------------	------

APPENDIX C

Winterization Checklist

Drain all pumps, valves, plumbing, foam unit and water tank. Blow out system with compressed air and/or add a small amount of antifreeze and water to low spots.

Date:	Completed By:
--------------	----------------------

REMARKS AREA

PUMP AND MOTOR



Oil Changed		Wash Motor	
Drain Pump		Change Air Filter	
Grease Pump		Drain Strainer	
Add Gas Additive		Open Valves(or remove)	
Drain Plumbing			

FOAM UNIT OR SYSTEM

Flush System		Drain All Lines	
Drain Metering Valve		Drain Selector Valve	
Winterize Bladder		Inspect "O" Rings	

HOSE REELS

Drain Hose		Drain Reels	
Remove Nozzles		Inspect & Lube Gaskets	

TANK

Drain & Flush		Remove Plugs	
---------------	--	--------------	--

ENGINE

Tighten All Bolts		Test Anti-Freeze (-40)	
Inspect All Lights		Post Anti-Freeze Degree Reading on Left Headlight	
Brake Fluid		Fuel Filter	
Anti-Freeze in Wiper Fluid		Check or Change Oil	
Oil Filter (if oil changed)		Auto Transmission Fluid	
Clean Radiator		Clean or Replace Air Filter	
Power Steering Fluid		Inspect Fan Belts	
AM/FM Radio Off		2-Way Radio Off	
AC & Heater Off		Battery Off	

UNDER CARRIAGE

Transfer Case Fluid		Front Differential Fluid	
Rear Differential Fluid		Check and Note any Leaks	
Grease all Zerks		Inspect Tie Rods	
Inspect Drive Lines		Inspect Springs & Hangers	
Inspect Break Pods		Drain Air Tanks	
Tire Condition (circle) Poor Fair Good		Pump Package Mounting Brackets	

BOXES

Clean, Paint & sharpen Hand Tools		Clean and/or Paint Interior of Boxes	
Clean Fuel Cans & Drip Torches		Fire Extinguisher Serviced & Stored	
Lock Boxes			

APPENDIX D

APPENDIX E

APPENDIX F

' Engine Service Log '

' **Engine** Date: _____ Mileage: _____
Completed by: _____ Oil Oil Filter Air Filter Fuel Filter
Next Service Due: _____ G G G G

' **Pump** Date: _____ Mileage: _____
Completed by: _____ Oil Oil Filter Air Filter Fuel Filter
Next Service Due: _____ G G G G

' **Engine** Date: _____ Mileage: _____
Completed by: _____ Oil Oil Filter Air Filter Fuel Filter
Next Service Due: _____ G G G G

' **Pump** Date: _____ Mileage: _____
Completed by: _____ Oil Oil Filter Air Filter Fuel Filter
Next Service Due: _____ G G G G

' **Engine** Date: _____ Mileage: _____
Completed by: _____ Oil Oil Filter Air Filter Fuel Filter
Next Service Due: _____ G G G G

' **Pump** Date: _____ Mileage: _____
Completed by: _____ Oil Oil Filter Air Filter Fuel Filter
Next Service Due: _____ G G G G

' Engine Service Log '

' **Engine**

Date: _____

Mileage: _____

Completed by: _____

Oil

Oil Filter

Air Filter

Fuel Filter

Next Service Due: _____

G

G

G

G

' **Pump**

Date: _____

Mileage: _____

Completed by: _____

Oil

Oil Filter

Air Filter

Fuel Filter

Next Service Due: _____

G

G

G

G

' **Engine**

Date: _____

Mileage: _____

Completed by: _____

Oil

Oil Filter

Air Filter

Fuel Filter

Next Service Due: _____

G

G

G

G

' **Pump**

Date: _____

Mileage: _____

Completed by: _____

Oil

Oil Filter

Air Filter

Fuel Filter

Next Service Due: _____

G

G

G

G

' **Engine**

Date: _____

Mileage: _____

Completed by: _____

Oil

Oil Filter

Air Filter

Fuel Filter

Next Service Due: _____

G

G

G

G

' **Pump**

Date: _____

Mileage: _____

Completed by: _____

Oil

Oil Filter

Air Filter

Fuel Filter

Next Service Due: _____

G

G

G

G

NOTES