



# AL2

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## Preventive Maintenance Timeline & Checklist

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The preventive maintenance and service timelines outlined here represent the minimum required intervals. Equipment used in heavy-duty applications or extreme environments may require more frequent inspections and maintenance.

These inspections and maintenance tasks are in addition to the chassis manufacturer's recommendations and the daily checks found in the loader's Operator's Manual. They also supplement all procedures that must be performed more frequently.

After completing any adjustment or repair, do not return the loader to service until all guards have been reinstalled, any trapped air has been removed from the hydraulic system (if necessary), all safety devices are reactivated, and all maintenance tools have been removed.

Always position the vehicle in an area with enough space to swing the boom and raise the dump body. This ensures safe access for required maintenance and provides room for diagnostics or post-repair testing if needed. Before performing any service, make sure the bucket is resting on the ground or the floor of the dump body.

Do not service the loader unless you are properly trained and authorized. All technicians must read and understand the Operator's Manual before beginning any work. Anyone responsible for maintaining the unit should be thoroughly familiar with the inspection points, maintenance procedures, and recommended service intervals.

Always wear protective clothing and personal safety devices issued to you or required by job conditions when operating or working on this loader. Requirements include but are not limited to; wearing a hard hat, safety shoes, goggles, face shield, or safety glasses (with side shields that comply with ANSI Z87 standards), protective gloves, hearing protection, and reflective clothing.

					
Wear Safety Glasses to Comply with ANSI Z87	Wear Hard Hat	Wear Safety Shoes	Wear Hearing Protection	Wear Protective Gloves	Wear Safety Reflective Vest

The following pages outline the preventive maintenance schedule based on loader operating hours—not chassis hours. A digital or printed version of this checklist may be kept on file as a service record for individual loaders. The loader’s serial number is used for identification. Guidance for locating this number is available [ON THE PETERSEN WEBSITE](#). The format shown below is for illustration only and explains how model, manufacture date, and unit number are represented.

(The serial number shown is a fictitious number for **illustration purposes only**.)

**AL2-0199-344**

**The above serial number is designed to provide three types of information.**

- “**AL2**” indicates the model of the loader.
- “**0199**” indicates the date it of manufacture – January 1999.
- “**0344**” is a specific unit number to identify that loader in production.

**LOADER S/N:** Model — Date of Mfr. — Unit #

**DATE OF SERVICE:** Date

**AFTER FIRST 40 HOURS of OPERATION (Break-in)**

MAINTENANCE TO PERFORM	SPECIFICATIONS	DATE	COMPLETE
Re-torque slewing bearing bolts	<b>280 LB. FT.</b>	<a href="#">Click Here</a>	<input type="checkbox"/>
Check torque of planetary gearbox bolts.	<b>280 LB. FT. (3/4" Bolts)</b> <b>480 LB. FT. (1" Bolts)</b>	<a href="#">Click Here</a>	<input type="checkbox"/>
Replace hydraulic oil return filter.		<a href="#">Click Here</a>	<input type="checkbox"/>
Change planetary gearbox lubricant.	Drain and refill with <b>80W</b> gear lube.	<a href="#">Click Here</a>	<input type="checkbox"/>

**EVERY 40 HOURS of OPERATION**

MAINTENANCE TO PERFORM	SPECIFICATIONS	DATE	COMPLETE
Grease all fittings. Use <b>EP2</b> (extreme pressure) grease.	See AL2 LUBRICATION CHART for locations.	<a href="#">Click Here</a>	<input type="checkbox"/>
Check hydraulic hoses and guards for cuts, abrasions, or evidence of binding.	Replace any damaged hoses or hose guards.	<a href="#">Click Here</a>	<input type="checkbox"/>
Check that all hydraulic fittings are secure with no signs of leakage.	Replace missing, damaged or modified fittings.	<a href="#">Click Here</a>	<input type="checkbox"/>
Tighten pivot bolts on the gimbal and bucket rotator assemblies to <b>150 LB. FT.</b>	If brake pads show excessive wear, replace.	<a href="#">Click Here</a>	<input type="checkbox"/>
Check HYDRAULIC OIL level while oil is cold with loader on a level surface and boom in the transport position. Hydraulic Oil grade = <b>AW32</b>	Fill to upper black line in sight glass. Do not overfill.	<a href="#">Click Here</a>	<input type="checkbox"/>
Check all SAFETY DEVICES such as back-up and boom-up alarms, and PTO interlock devices to ensure they are working properly.	Repair, adjust, or replace if necessary.	<a href="#">Click Here</a>	<input type="checkbox"/>



**EVERY 80 HOURS of OPERATION**

<b>MAINTENANCE TO PERFORM</b>	<b>SPECIFICATIONS</b>	<b>DATE</b>	<b>COMPLETE</b>
Torque slewing bearing bolts.	<b>280 lb. ft.</b>	<a href="#">Click Here</a>	<input type="checkbox"/>
Check torque of planetary gearbox bolts	<b>280 lb. ft. (3/4") 480 lb. ft. (1" bolt)</b>	<a href="#">Click Here</a>	<input type="checkbox"/>
Check the backlash of slewing bearing pinion and ring gear.	<b>0.007"</b> backlash	<a href="#">Click Here</a>	<input type="checkbox"/>

**EVERY 160 HOURS of OPERATION**

<b>MAINTENANCE TO PERFORM</b>	<b>SPECIFICATIONS</b>	<b>DATE</b>	<b>COMPLETE</b>
Examine loader pivot points (head, pedestal, main boom, tip boom, tip boom extension, bucket and body).	Replace worn bushings and/or pins.	<a href="#">Click Here</a>	<input type="checkbox"/>
Inspect chassis frame spacers for shifting & retorque loader pedestal tie-down bolts.	Torque to <b>400 lb. ft.</b>	<a href="#">Click Here</a>	<input type="checkbox"/>
Torque main boom and tip boom pivot bolts.		<a href="#">Click Here</a>	<input type="checkbox"/>
Re-torque socket-head bolts on bucket rotator.	Torque to <b>440 lb. ft.</b>	<a href="#">Click Here</a>	<input type="checkbox"/>
Check chassis for cracks, loose or missing bolts, damaged springs, or loose shackles.	See chassis manufacturer's service manual.	<a href="#">Click Here</a>	<input type="checkbox"/>
Inspect entire loader for damage including cracks in weldments & signs of contact on boom and body.	Visual inspection	<a href="#">Click Here</a>	<input type="checkbox"/>
Check all loader fasteners, pins, sheaves, retainers, bolts and nuts.	Replace/retorque as needed.	<a href="#">Click Here</a>	<input type="checkbox"/>
Inspect PTO, PTO bracket, and hydraulic pump drive fasteners.	Repair loose or missing bolts & leaking seals.	<a href="#">Click Here</a>	<input type="checkbox"/>
Inspect load covering system.	Lubricate and inspect for wear.	<a href="#">Click Here</a>	<input type="checkbox"/>



Check presence and legibility of all decals & safety diagrams.	Replace missing or damaged decals.	<a href="#">Click Here</a>	<input type="checkbox"/>
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EVERY 600 HOURS of OPERATION			
MAINTENANCE TO PERFORM	SPECIFICATIONS	DATE	COMPLETE
Replace the hydraulic system filter cartridge and breather.	Change earlier if pressure gauge needle is in red zone.	<a href="#">Click Here</a>	<input type="checkbox"/>

EVERY 3,000 HOURS of OPERATION			
MAINTENANCE TO PERFORM	SPECIFICATIONS	DATE	COMPLETE
Change oil in planetary gearbox	Refill with 80W gear lube.	<a href="#">Click Here</a>	<input type="checkbox"/>
Check for vertical play in slewing bearing.	Variance not to exceed 0.055" at rear of head.	<a href="#">Click Here</a>	<input type="checkbox"/>

**Maintenance Performed By:**

Name:

Date:

