



Ziegler Preventive Maintenance

TYPES OF PREVENTIVE MAINTENANCE PLANS

Whether you operate a single piece of Cat® equipment or an entire fleet, you need someone who knows what it takes to keep your equipment operating at maximum efficiency and productivity. A Preventive Maintenance (PM) plan can help you maintain the efficiency of your Cat equipment at a surprisingly low cost. We'll do the work onsite or at our professional service facilities. We will accommodate what is most convenient for you.

MAINTENANCE PLAN OPTIONS	LEVELS*			
	PM 1	PM 2	PM 3	PM 4
Basic <i>Do it myself</i>	□	□	□	□
Enhanced <i>Work with me</i>	□	□	■	■
Premium <i>Do it for me</i>	■	■	■	■

LABOR: □ You provide ■ Ziegler CAT provides

PARTS/FLUIDS: Provided by Ziegler CAT for all options and levels

*PM Levels (intervals) vary by machine and oil type.

PREVENTIVE MAINTENANCE PLAN BENEFITS

- Reduced likelihood of equipment failure
- Maintenance performed at proper intervals
- Improved quality of maintenance records
- Detection of minor issues before they turn into major failures
- Helps you plan and budget for maintenance



SSL/CTL/MTL



MAINTENANCE PLAN OPTIONS		LEVELS	
Services Performed (synthetic)	500 hours	1,000 hours	
Check all fluid levels	■	■	
Check engine for unusual noises or smoke	■	■	
Check gauges, controls, and machine operation	■	■	
Fluid Analysis sampling – engine oil and hydraulic oil	■	■	
Change engine oil and filter; check filter for foreign material	■	■	
Dispose of used oils	■	■	
Check fan pulleys, belts, and fan drive bearings	■	■	
Replace all fuel filters	■	■	
Replace hydraulic oil filter(s)	■	■	
Replace primary air filter	■	■	
Replace secondary air filter	■	■	
Cut and inspect all filters for foreign material	■	■	
Drain water and sediment from fuel tank	■	■	
Lubricate all grease points	■	■	
Change oil in final drives	■	■	
Fluid Analysis sampling – engine coolant		■	
Disassemble and clean fuel-tank cap		■	
Visually inspect rollover protection system (ROPS) for damage		■	
Replace cab air filters		■	
Inspect cooling hoses and lines		■	

*Conventional 250 hour services are also available. Please ask your Customer Service Representative for more details.

Telehandler



MAINTENANCE PLAN OPTIONS	LEVELS	
	500 hours or 6 months	1,000 hours or annually
Services Performed (synthetic)		
Check all fluid levels	■	■
Check engine for unusual noises or smoke	■	■
Check gauges, controls, and machine operation	■	■
SOS Fluid Analysis sampling – engine oil	■	■
Change engine oil and filter	■	■
Dispose of used oils and filters	■	■
Check fan pulleys and belts	■	■
Replace fuel filters (all)	■	■
Lubricate all grease points	■	■
Replace hydraulic oil filter(s)	■	■
Replace primary air filter	■	■
Cut and inspect all filters for foreign material	■	■
Drain water and sediment from fuel tank	■	■
Fluid Analysis sampling – engine coolant, transmission, hydraulic oil, transfer gear, and differentials		■
Disassemble and clean fuel tank cap		■
Visually inspect rollover protection system (ROPS) for damage		■
Change transmission oil and filter		■
Change transfer gear oil		■
Change differential oil		■
Change final drive oil		■
Replace secondary air filter		■
Inspect cooling hoses and lines		■

Backhoe Loader



MAINTENANCE PLAN OPTIONS	LEVELS			
	PM 1	PM 2	PM 3	PM 4
Services Performed	250 hours or 3 months	500 hours or 3 months	1,000 hours or 6 months	2,000 hours or annually
Check all fluid levels	■	■	■	■
Check engine for unusual noises or smoke	■	■	■	■
Check gauges, controls, and machine operation	■	■	■	■
Fluid Analysis sampling – engine oil	■	■	■	■
Change engine oil and filter; check filter for foreign material	■	■	■	■
Dispose of used oils and filters	■	■	■	■
Check fan pulleys and belts	■	■	■	■
Replace secondary fuel filter(s), in-line fuel filter	■	■	■	■
Lubricate all grease points	■	■	■	■
Fluid Analysis sampling – transmission, hydraulic oil, and differentials		■	■	■
Replace hydraulic oil filter(s)		■	■	■
Replace transmission oil filter		■	■	■
Replace primary air filter		■	■	■
Cut and inspect all filters for foreign material		■	■	■
Change fuel-water separator element		■	■	■
Drain water and sediment from fuel tank		■	■	■
Fluid Analysis sampling – engine coolant			■	■
Disassemble and clean fuel-tank cap			■	■
Visually inspect rollover protection system (ROPS) for damage			■	■
Change transmission oil			■	■
Change front and rear differential oil			■	■
Replace secondary air filter				■
Replace cab air filters				■
Inspect cooling hoses and lines				■

Dozer



MAINTENANCE PLAN OPTIONS	LEVELS			
	PM 1	PM 2	PM 3	PM 4
Services Performed	250 hours	500 hours	1,000 hours	2,000 hours
Check all fluid levels	■	■	■	■
Check engine for unusual noises or smoke	■	■	■	■
Check gauges, controls, and machine operation	■	■	■	■
Fluid Analysis sampling – engine oil	■	■	■	■
Change engine oil and filter; check filter for foreign material	■	■	■	■
Dispose of used oils	■	■	■	■
Check fan pulleys, belts, and fan drive bearings	■	■	■	■
Replace secondary fuel filter(s)	■	■	■	■
Replace primary fuel filter	■	■	■	■
Lubricate all grease points	■	■	■	■
Fluid Analysis sampling – transmission, hydraulic oil, and final drive oil		■	■	■
Replace hydraulic oil filter(s)		■	■	■
Replace transmission oil filter		■	■	■
Replace primary air filter		■	■	■
Cut and inspect all filters for foreign material		■	■	■
Drain water and sediment from fuel tank		■	■	■
Change oil in final drives			■	■
Change transmission oil			■	■
Fluid Analysis sampling – engine coolant			■	■
Disassemble and clean fuel-tank cap			■	■
Visually inspect rollover protection system (ROPS) for damage			■	■
Replace secondary air filter				■
Replace cab air filters				■
Inspect cooling hoses and lines				■

Track Loader



MAINTENANCE PLAN OPTIONS	LEVELS			
	PM 1	PM 2	PM 3	PM 4
Services Performed	250 hours or monthly	500 hours or 3 months	1,000 hours or 6 months	2,000 hours or annually
Check all fluid levels	■	■	■	■
Check engine for unusual noises or smoke	■	■	■	■
Check gauges, controls, and machine operation	■	■	■	■
Fluid Analysis sampling – engine oil	■	■	■	■
Change engine oil and filter; check filter for foreign material	■	■	■	■
Dispose of used oils and filters	■	■	■	■
Check fan pulleys and belts	■	■	■	■
Replace secondary fuel filter(s)	■	■	■	■
Lubricate all grease points	■	■	■	■
Fluid Analysis sampling – transmission, hydraulic oil, and final drive oil		■	■	■
Replace hydraulic oil filter(s)		■	■	■
Replace transmission oil filter		■	■	■
Replace primary air filter		■	■	■
Cut and inspect all filters for foreign material		■	■	■
Change fuel-water separator element		■	■	■
Drain water and sediment from fuel tank		■	■	■
Change oil in final drives			■	■
Change transmission oil			■	■
Fluid Analysis sampling – engine coolant			■	■
Disassemble and clean fuel-tank cap			■	■
Visually inspect rollover protection system (ROPS) for damage			■	■
Replace secondary air filter				■
Replace cab air filters				■
Inspect cooling hoses and lines				■

Wheel Loader



MAINTENANCE PLAN OPTIONS	LEVELS			
	PM 1	PM 2	PM 3	PM 4
Services Performed	250 hours	500 hours	1,000 hours	2,000 hours
Check all fluid levels	■	■	■	■
Check engine for unusual noises or smoke	■	■	■	■
Check gauges, controls, and machine operation	■	■	■	■
Fluid Analysis sampling – engine oil	■	■	■	■
Change engine oil and filter; check filter for foreign material	■	■	■	■
Dispose of used oils	■	■	■	■
Check fan pulleys, belts, and fan drive bearings	■	■	■	■
Replace secondary fuel filter(s)	■	■	■	■
Lubricate all grease points	■	■	■	■
Fluid Analysis sampling – transmission, hydraulic oil, and differentials		■	■	■
Replace hydraulic oil filter(s)		■	■	■
Replace transmission oil filter		■	■	■
Replace primary air filter		■	■	■
Cut and inspect all filters for foreign material		■	■	■
Change fuel-water separator element		■	■	■
Drain water and sediment from fuel tank		■	■	■
Fluid Analysis sampling – engine coolant			■	■
Disassemble and clean fuel-tank cap			■	■
Visually inspect rollover protection system (ROPS) for damage			■	■
Change transmission oil			■	■
Change front and rear differential oil				■
Replace secondary air filter				■
Replace cab air filters				■
Inspect cooling hoses and lines				■

Excavator



MAINTENANCE PLAN OPTIONS	LEVELS			
	PM 1	PM 2	PM 3	PM 4
Services Performed	250 hours	500 hours	1,000 hours	2,000 hours
Check all fluid levels	■	■	■	■
Check engine for unusual noises or smoke	■	■	■	■
Check gauges, controls, and machine operation	■	■	■	■
Fluid Analysis sampling – engine oil	■	■	■	■
Change engine oil and filter; check filter for foreign material	■	■	■	■
Dispose of used oils	■	■	■	■
Check fan pulleys, belts, and fan drive bearings	■	■	■	■
Replace secondary fuel filter(s)	■	■	■	■
Lubricate all grease points	■	■	■	■
Fluid Analysis sampling – hydraulic oil, swing drive, and final drive oil		■	■	■
Replace hydraulic oil filter(s)		■	■	■
Replace primary air filter		■	■	■
Cut and inspect all filters for foreign material		■	■	■
Change fuel-water separator element		■	■	■
Drain water and sediment from fuel tank		■	■	■
Change oil in final drives		■	■	■
Fluid Analysis sampling – engine coolant			■	■
Disassemble and clean fuel-tank cap			■	■
Visually inspect rollover protection system (ROPS) for damage			■	■
Change oil in swing drive			■	■
Replace secondary air filter				■
Replace cab air filters				■
Inspect cooling hoses and lines				■

Motor Grader



MAINTENANCE PLAN OPTIONS	LEVELS			
	PM 1	PM 2	PM 3	PM 4
Services Performed	250 hours	500 hours	1,000 hours	2,000 hours
Check all fluid levels	■	■	■	■
Check engine for unusual noises or smoke	■	■	■	■
Check gauges, controls, and machine operation	■	■	■	■
Fluid Analysis sampling – engine oil	■	■	■	■
Change engine oil and filter; check filter for foreign material	■	■	■	■
Dispose of used oils	■	■	■	■
Check fan pulleys, belts, and fan drive bearings	■	■	■	■
Replace secondary fuel filter(s)	■	■	■	■
Lubricate all grease points	■	■	■	■
Fluid Analysis sampling – transmission/differential oil, hydraulic oil, tandem drive oil, and front wheel hubs		■	■	■
Replace hydraulic oil filter(s)		■	■	■
Replace transmission oil filter		■	■	■
Replace primary air filter		■	■	■
Cut and inspect all filters for foreign material		■	■	■
Change fuel-water separator element		■	■	■
Drain water and sediment from fuel tank		■	■	■
Change AWD Filters (if applicable)			■	■
Fluid Analysis sampling – engine coolant			■	■
Disassemble and clean fuel tank cap			■	■
Visually inspect rollover protection system (ROPS) for damage			■	■
Change transmission/differential oil			■	■
Change circle drive oil				■
Change tandem drive oil				■
Change front wheel spindle housing oil (or AWD gearbox oil if applicable)				■
Replace secondary air filter				■
Replace cab air filters				■
Inspect cooling hoses and lines				■

Wheel Tractor Scraper



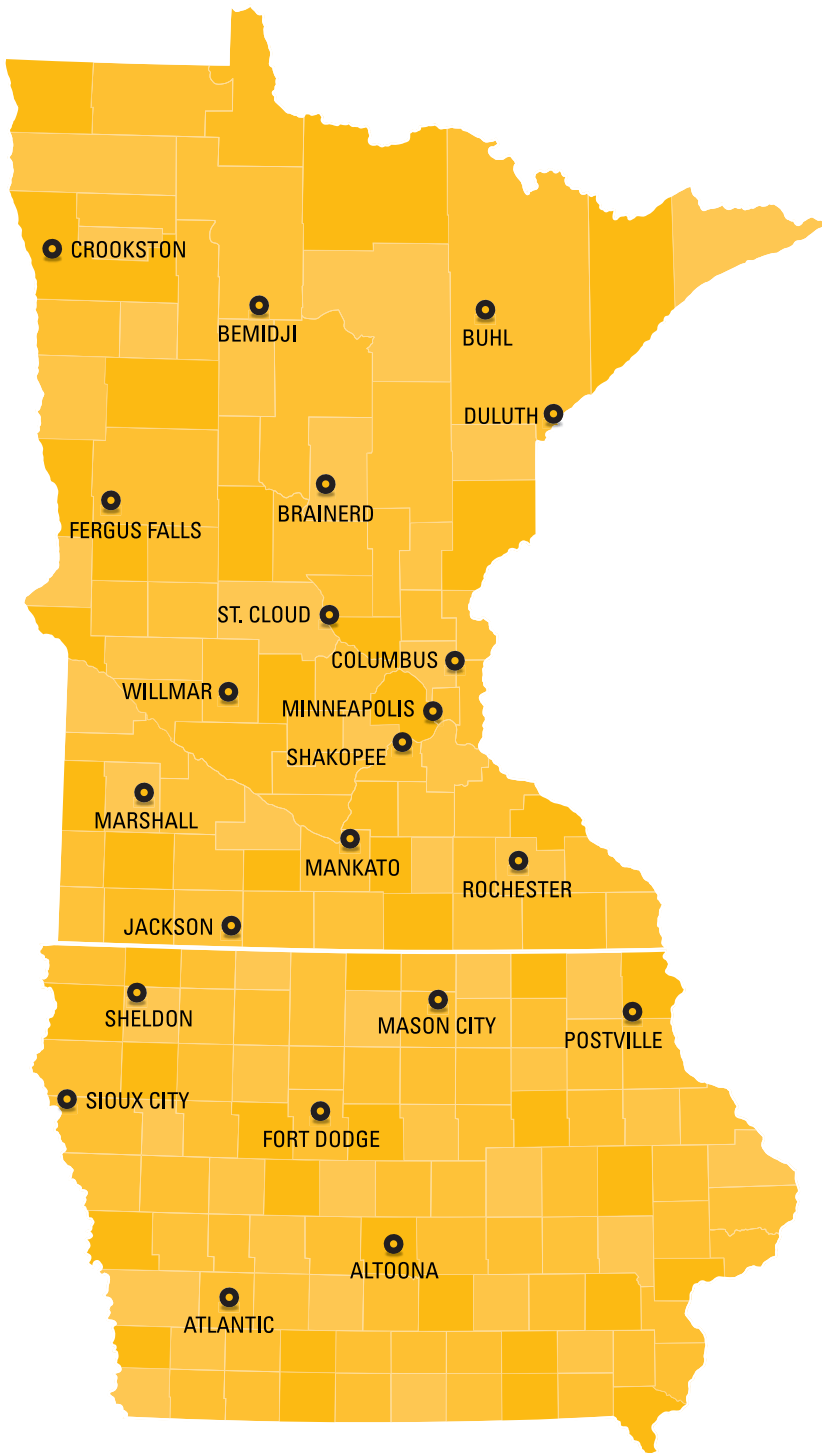
MAINTENANCE PLAN OPTIONS	LEVELS			
	PM 1	PM 2	PM 3	PM 4
Services Performed	250 hours or 3 months	500 hours or 3 months	1,000 hours or 6 months	2,000 hours or annually
Check all fluid levels	■	■	■	■
Check engine for unusual noises or smoke	■	■	■	■
Check gauges, controls, and machine operation	■	■	■	■
Fluid Analysis sampling – engine oil	■	■	■	■
Change engine oil and filters; check filter for foreign material	■	■	■	■
Dispose of used oils and filters	■	■	■	■
Check fan pulleys and belts	■	■	■	■
Replace secondary fuel filter(s)	■	■	■	■
Lubricate all grease points	■	■	■	■
Fluid Analysis sampling – transmission, hydraulic oil, and differentials		■	■	■
Replace hydraulic oil filter(s)		■	■	■
Replace transmission oil filter(s)		■	■	■
Replace primary air filter(s)		■	■	■
Cut and inspect all filters for foreign material		■	■	■
Change fuel-water separator element(s)		■	■	■
Drain water and sediment from fuel tank		■	■	■
Fluid Analysis sampling – engine coolant			■	■
Disassemble and clean fuel-tank cap			■	■
Visually inspect rollover protection system (ROPS) for damage			■	■
Change transmission oil			■	■
Change front and rear differential oil				■
Replace secondary air filter(s)				■
Replace cab air filters				■
Inspect cooling hoses and lines				■

Off-highway Truck



MAINTENANCE PLAN OPTIONS	LEVELS			
	PM 1	PM 2	PM 3	PM 4
Services Performed	250 hours	500 hours	1,000 hours	2,000 hours
Check all fluid levels	■	■	■	■
Check engine for unusual noises or smoke	■	■	■	■
Check gauges, controls, and machine operation	■	■	■	■
Fluid Analysis sampling – engine oil	■	■	■	■
Change engine oil and filter; check filter for foreign material	■	■	■	■
Dispose of used oils	■	■	■	■
Check fan pulleys, belts, and fan drive bearings	■	■	■	■
Replace secondary fuel filter(s)	■	■	■	■
Lubricate all grease points	■	■	■	■
Fluid Analysis sampling – differential/final drives, transmission/transfer gear, brake, steering, and hoist		■	■	■
Replace hydraulic oil filter(s)		■	■	■
Replace primary air filter		■	■	■
Replace transmission filter		■	■	■
Replace brake cooling filter		■	■	■
Cut and inspect all filters for foreign material		■	■	■
Change fuel-water separator element		■	■	■
Drain water and sediment from fuel tank		■	■	■
Fluid Analysis sampling – engine coolant			■	■
Disassemble and clean fuel-tank cap			■	■
Visually inspect rollover protection system (ROPS) for damage			■	■
Change transmission/transfer gear oil			■	■
Replace secondary air filter				■
Replace cab air filters				■
Change differential/final drive oil				■
Change final drive oil				■
Change steering and hoist hydraulic oil				■
Change brake hydraulic oil				■
Inspect cooling hoses and lines				■

22 ZIEGLER CAT LOCATIONS



MINNESOTA

Bemidji

5426 Highway 71 N
56601 ZIP / 218.751.1033

Brainerd

3311 Liberty Lane
56401 ZIP / 218.829.9800

Buhl

10081 E Highway 169
55713 ZIP / 218.258.3232

Columbus

13822 W Freeway Drive
55038 ZIP / 651.982.5600

Crookston

720 3rd Avenue SW
56716 ZIP / 218.281.4245

Duluth

210 Garfield Avenue
55802 ZIP / 218.722.6628

Fergus Falls

3502 State Highway 210 W
56537 ZIP / 218.736.2680

Jackson

191 Industrial Parkway
56143 ZIP / 507.847.7600

Mankato

2145 Howard Drive W
56003 ZIP / 507.388.1444

Marshall

1200 N Highway 59
56258 ZIP / 507.532.4403

Minneapolis

901 W 94th Street
55420 ZIP / 952.888.4121

Rochester

6340 Highway 63 S
55904 ZIP / 507.285.1775

Shakopee

8000 County Road 101 E
55379 ZIP / 952.887.4570

St. Cloud

2225 255th Street
56301 ZIP / 320.253.2234

Willmar

3867 Highway 12 E
56201 ZIP / 320.235.8123

IOWA

Altoona

1500 Ziegler Drive NW
50009 ZIP / 515.957.3828

Atlantic

951 Park Drive
50022 ZIP / 712.243.1039

Fort Dodge

3366 5th Avenue S
50501 ZIP / 515.576.3161

Mason City

11490 265th Street
50401 ZIP / 641.423.7240

Postville

308 North Lawler
52162 ZIP / 563.864.7461

Sheldon

102 Crossroads Drive
51201 ZIP / 712.324.5604

Sioux City

5300 Harbor Drive
51111 ZIP / 712.252.4401

ZIEGLER CAT

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