

CATERPILLAR MONTHLY PREVENTIVE MAINTENANCE FOR

Standby Generator Sets

TO BE PERFORMED BY AN AUTHORIZED OPERATOR



Customer Name: _____ Model: _____ Serial Number: _____

Hours: _____ Work Order Number: _____

Operator: _____ Date: _____

WARNING

The stop-manual-automatic switch on the cranking panel must be set at “stop” position when performing maintenance or repair work on a standby generator set. This prevents the unit from starting if a power failure or voltage drop should occur while working on the unit.

To prevent personal injury due to accidental starting of the engine, disconnect the batteries or disable the starting system before doing maintenance or repair work.

Lock out all switch gear and automatic transfer switches associated with the generator while performing any generator maintenance or repairs. Make sure no shock hazard exists.

Failure to comply could result in personal injury or death.

Item	Service	Status	
		Satisfactory	Unsatisfactory
MONTHLY: BEFORE STARTING THE ENGINE			
Walk-Around Inspection	Check the engine, radiator, and generator for debris, foreign objects, loose or broken fittings, guards, and components. Repair as necessary.		
Belts	Inspect for worn, broken, or loose belts (alternator, fan, drive, etc.).		
Cooling System	Maintain proper coolant level.		
Block Heater	Check for proper operation. Maintain 32°C (90°F) coolant temperature in the block at all times.		
Air Cleaner Indicator	Check the indicator. Change the air cleaner elements when the indicator diaphragm remains locked.		
Engine Crankcase	Check the oil level. Maintain the oil level between the add and full marks on the engine stopped side of the dipstick.		
Governor	Check and maintain the oil level (if required).		
Fuel System	Check for leaks and drain water separator (if equipped). Keep fuel tank full. Check fuel filter indicator (if equipped).		
Air System (If Equipped)	Drain condensate; check air pressure.		
Batteries	Maintain electrolyte level, clean batteries if necessary, check for tight connections.		
Gauges	Check the condition of all gauges. Repair or replace any broken gauge.		
Battery Charger	Check for proper operation.		
Generator and Control Panel	Visual inspection – check for loose, broken, or damaged wiring or components.		



Item	Service	Status	
		Satisfactory	Unsatisfactory
MONTHLY: WITH ENGINE RUNNING			
Start the Engine	The following operational checks are intended to check the generator operation and the engine starting, lubricating, and fuel systems as well as overall operation. The checks should take no longer than five (5) minutes to complete. Longer periods of operation are not required. A more beneficial test will be performed with the engine operating under load.		
Oil Pressure	Check for proper operating oil pressure. Refer to the Operation and Maintenance Guide for the correct pressure reading.		
Fuel Pressure	Check for proper operating fuel pressure. Refer to the Operation and Maintenance Guide for the correct pressure reading.		
Engine Crankcase	Check the oil level. Maintain the oil level between the add and full marks on the engine running side of the dipstick.		
Frequency (rpm) and Generated Voltage	Check and record readings. NOTE: The operating voltage of a cold (just started) generator will be slightly higher than the operating voltage of a generator that has been under load and warm. The full load voltage of a generator will decrease a maximum of 1% when the generator stabilizes at 100°C (212°F). Most of the voltage decrease occurs in about 30 minutes. Generally, temperatures of generators stabilize within two hours.		
Radiator Louvers	Check for proper operation (able to open and close freely).		
Leaks and Noises	Check for leaks and unusual noises. NOTE: Engine must be stopped before making necessary repairs.		
MONTHLY: AFTER STOPPING THE ENGINE			
Automatic Switches (If Equipped)	Check that all switches are in proper position for automatic start.		
Fuel Level	Check the fuel level refill when below three-fourths full.		
Battery Charger	Record charging amperage reading.		
Malfunctions	Report any malfunction and make necessary repairs.		

Comments:

Maintain a log or record keeping system to document all gauge readings, problems, repairs, and maintenance performed on the equipment.

These guidelines identify some of the preventive maintenance recommended for standby generator sets and are to be used with the Operation and Maintenance Guide for your engine and generator. The guides will provide the necessary information on how to perform the checks and routine maintenance. Additional information can be obtained from the engine and generator service manuals or contact your Caterpillar dealer for assistance.

LET'S DO THE WORK.™

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