

Generator - Diesel/Gas (Non Hospital) B service

Last Issue Date: 21/01/2020		Type Of Service				
Activity		A	B	C	D	E
1	STATIC CHECKS (Items 1-21):		Y			
2	INSPECT THE CONDITION OF THE BATTERIES, INCLUDING: a) Check that the batteries are the vented type; b) Check the electrolyte level in each cell & record the results. Electrolyte to be replenished only with water complying with AS2668; c) Check the terminals & connections are tight, clean & corrosion free & apply approved preservative coating to the terminal posts & assemblies; d) Check the battery charger operation incl. the fail alarm & record; e) Check all cell containers for electrolyte leakage; f) Check & record the specific gravity of electrolyte in each cell; g) Before starting the generator, measure and record each battery's voltage; and h) Clean all cells, battery compartments and cabinets.		Y			
3	Check engine instruments, controls panel and all indicators.		Y			
4	INSPECT THE EXHAUST SYSTEM, ESPECIALLY FOR: a) Condition and any leaks or obstructions; b) Integrity of the fittings and fixings; c) Any signs of overheating including checking adjacent components; d) Condition and operation of the rain flap; e) Condition of flashings and the lagging; f) Condition of flexible connections.		Y			
5	Check air intake, especially for restrictions.		Y			
6	Check air filters.		Y			
7	Check air intake hoses and pipes, especially for leaks.		Y			
8	Check condition of belts & pulleys, especially for cracks and fraying.		Y			
9	Check condition of fan hub, idler and water pump.		Y			
10	Check engine oil level and top-up if necessary. Record the level.		Y			
11	Check operation of block heater, record standby temperature.		Y			
12	Check lubrication system for condition and leaks.		Y			
13	INSPECT THE FUEL SUPPLY SYSTEM a) Check the lines for leaks; b) Clean lift pump sediment chamber and guaze strainer; c) Check the quantity; d) Check the bulk tank fuel level and record; and e) Check the day tank fuel level and record.		Y			
14	Check the operation of the fuel solenoid.		Y			
15	FUEL ALARM SYSTEM: a) Check the system is operational & correctly calibrated; & b) Check the alarm is correctly connected to the BMS and the BMS effectively		Y			

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	transmits the alarm to the maintenance staff.					
16	Check tank breather (for diesel fueled).		Y			
17	Check engine coolant level and the radiator hoses/connections plus the coolant PH level/condition and record.		Y			
18	Check cooling system, especially for leaks.		Y			
19	Check condition of all auxillary items especially for correct fixing, damage and stressed components.		Y			
20	Check and clean generator inlet and outlet grille.		Y			
21	Record engine hours at end of test.		Y			
22	DYNAMIC CHECKS (Items 22-38 - With the Generator running): Check the condition and operation of the starting system.		Y			
23	For the dynamic B service checks run the generator with no load for a maximum of 30 minutes. (For the annual Load Test see TDS E03DE).		Y			
24	Check instrument panel starting sequence.		Y			
25	Check and record battery charging voltage, with set running.		Y			
26	Check for noise and vibration.		Y			
27	Check and record the actual water temperature against motor gauge indication.		Y			
28	Check air flow through radiator.		Y			
29	Check actual engine speed against motor tachometer indication.		Y			
30	Check the engine speed stability and record.		Y			
31	Check condition and operation of fuel pump, including calibration (for diesel fueled).		Y			
32	Check operation of speed governor.		Y			
33	Check for leaks, especially fuel, water and oil, while motor is operating.		Y			
34	Check condition & operation of fuel make up pump & valves, if installed		Y			
35	Check the air intake, especially for restrictions.		Y			
36	Check the air flow and cooling through the generator.		Y			
37	Check fuel supply and top up as required.		Y			
38	Check, measure and record generator output amps, voltage and frequency at: a) No load conditions. b) Load conditions.		Y			
39	Provide a written report on the condition and operation of the generator including any costed remedial work.		Y			

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40	Record all readings and results in the log book.		Y			

Special Comments and Technical Data

B SERVICE MONTHLY

THIS IS A SPLIT SERVICE TDS FOR SELECTED SITES ONLY. FOR THE D & E SERVICES REFER TO E03DE. FOR THE PRIMARY TDS REFER TO E03.

FOR THE REPLACEMENT OF THE BATTERIES REFER TO E03DE.

PRIOR TO EACH LOAD TEST APPROVAL IS REQUIRED FROM THE SITE. LOAD TESTS CAN ONLY BE UNDERTAKEN IF THERE IS NO SIGNIFICANT DISRUPTION TO SITE SERVICES.

NOTIFY THE SITE REPRESENTATIVE AND THE FACILITY MANAGER IF IT IS NOT POSSIBLE TO UNDERTAKE A LOAD TEST. LOAD BANKS CAN BE USED TO TOP UP THE LOAD ON THE GENERATOR FOR THE TEST BUT NOT AS A FULL SUBSTITUTE LOAD.

THE ACTIVITIES AND FREQUENCIES DETAILED ABOVE ARE OF A GENERIC NATURE AND MAY NEED TO BE VARIED TO SUIT THE MANUFACTURER'S RECOMMENDATIONS AND SITE REQUIREMENTS.

SEALED BATTERIES THAT CANNOT BE TOPPED UP WITH WATER & ARE ON CONSTANT CHARGE ARE NOT TO BE USED AS THEY MAY EXPLODE. VENTED STATIONARY LEAD ACID TYPE BATTERIES COMPLYING WITH AS4029.1 ARE TO BE USED.

APPLICABLE LEGISLATION AND STANDARDS: MINISTERIAL BUILDING STANDARD MBS002 AND AS3000.

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