

Very little fuel is used during routine testing of a generator set by an exercise timer. As such, any quantity of new fuel added is insufficient to dilute the effect of deterioration of the older fuel in the tank.

Average Fuel Consumption (Gallons Consumed)				
kW Size	1 Month	3 Months	6 Months	12 Months
Exercising with no load weekly for 15 minutes				
0-15 kW	0.2	0.6	1.2	2.4
16-30 kW	0.6	1.8	3.6	7.2
31-50 kW	0.9	2.7	5.4	10.8
51-100 kW	1.8	5.4	10.8	21.6
101-175 kW	2.6	7.8	15.6	31.2
176-300 kW	5.1	15.3	30.6	61.2
301-500 kW	8.0	24	48.0	96.0
501-750 kW	11.7	35.1	70.2	140.4
751-900 kW	13.7	41.1	82.2	164.4
901-1250 kW	18.4	55.2	110.4	220.8
1251-1500 kW	28.3	84.9	169.8	339.6
1501-2000 kW	31.1	93.3	186.6	373.2
Exercising with no load weekly for 15 minutes and monthly for 30 minutes with 50% load				
0-15 kW	0.6	1.8	3.6	7.2
16-30 kW	1.4	4.2	8.4	16.8
31-50 kW	2.2	6.6	13.2	26.4
51-100 kW	4.0	12.0	24.0	48.0
101-175 kW	6.0	18.0	36.0	72.0
176-300 kW	10.7	32.0	63.9	127.8
301-500 kW	17.1	51.2	102.3	204.6
501-750 kW	25.2	75.5	150.9	301.8
751-900 kW	29.6	88.7	177.3	354.6
901-1250 kW	40.3	120.8	241.5	483.0
1251-1500 kW	56.8	170.4	340.8	681.6
1501-2000 kW	65.5	196.5	393.0	786.0
Exercising with 50% load weekly for 15 minutes				
0-15 kW	0.8	2.4	4.8	9.6
16-30 kW	1.6	4.8	9.6	19.2
31-50 kW	2.6	7.8	15.6	31.2
51-100 kW	4.4	13.2	26.4	52.8
101-175 kW	6.8	20.4	40.8	81.6
176-300 kW	11.1	33.3	66.6	133.2
301-500 kW	18.1	54.3	108.6	217.2
501-750 kW	26.9	80.7	161.4	322.8
751-900 kW	31.7	95.1	190.2	380.4
901-1250 kW	43.7	131.1	262.2	524.4
1251-1500 kW	57.0	171.0	342.0	684.0
1501-2000 kW	68.8	206.4	412.8	825.6

The above figures are averages. When in doubt, refer to your generator's specification sheet.



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The A-B-C's of Fuel Maintenance

A - Testing

B - Polishing

C - Treating

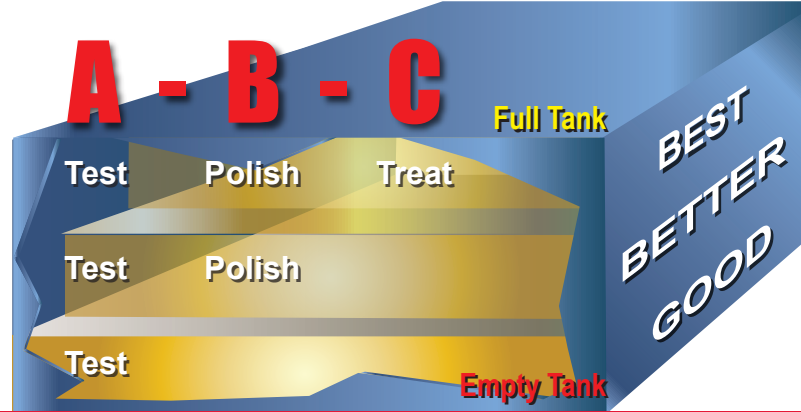


"Diesel fuel has a limited shelf life and if left untreated, could be rendered useless after two years."



For Complete Fuel Management

Fuel Maintenance.....
as easy as
A B C



"A good fuel source is a necessity in order for your generator to perform when needed."

Protect Your Investment

Genset Services fuel maintenance steps **A B C will reduce engine under-performance caused by poor diesel fuel**

Ignoring fuel maintenance can be risky and costly. Unlike diesel fuel used in trucks, a generator system most frequently draws its diesel fuel from a stationary tank and stationary diesel fuel is more prone to deterioration.

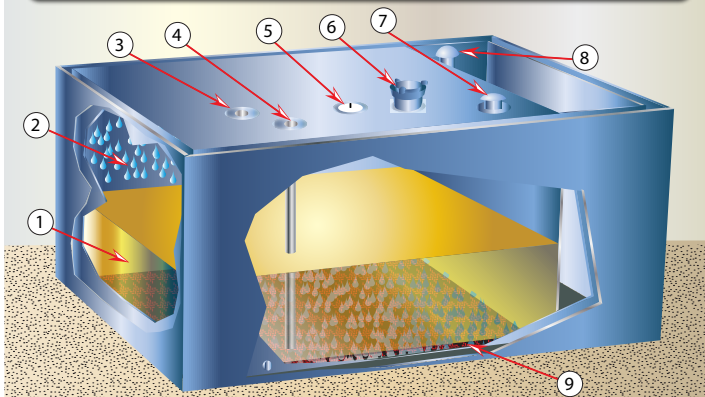
Diesel stored in stationary tanks over several months can:

- Deteriorate after sitting for 6 months, even becoming useless after 2 years.
- Accumulate sediment at the bottom of the tank.
- Become contaminated by water that has condensed on the exposed inside surfaces of the fuel tank.
- Water accelerates micro organism (Algae) growth in diesel fuel.

TYPICAL DOUBLE WALL GENERATOR FUEL TANK

ILLUSTRATION KEY

- | | | |
|------------------------------|---|--|
| 1 - Fuel tank 50% full | 2 - Condensation on exposed inner surface | 3 - Return line |
| 4 - Fuel pick up from base | 5 - Fuel gauge | 6 - Fuel fill access |
| 7 - Emergency Fuel Tank Vent | 8 - Outer emergency Fuel Tank Vent | 9 - Sediment & water collecting at tank base |



Preventive Measures

Effects of poor quality contaminated diesel fuel on engine performance:

- Algae and bottom sediment will block fuel filters reducing flow to the engine fuel system.
- Water will damage engine fuel injection pumps and injectors.
- Engine may not perform to 100% if Cetane levels are lower than required. (The Cetane # defines the combustion quality of diesel fuel)

Step A is to test your fuel, a good sound step to adopt for reducing poor performance linked to stored diesel fuel

Step A

Fuel Test

"A power outage is the wrong time to discover your fuel is unreliable"



Contamination Sampling:

- Checks for water contamination and bottom sediment
- **Quality and Contamination Sampling (covers the above plus)**
 - Checks for: Gel, Flash, and Cloud points
 - Verifies distillation and cetane level
 - Meets ASTM standards required to comply with annual fuel testing required by the NFPA (NFPA110 8.3.8)
- Fuel issues often appear only when equipment operates

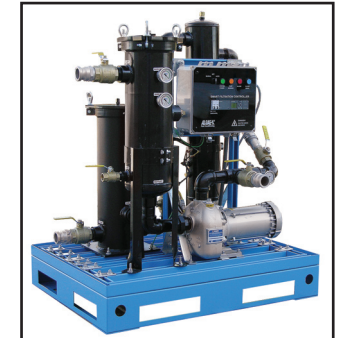
Additional Protection

Step B for better fuel quality and step C for the best practice in fuel servicing and earth friendly recycling of poor fuel

Step B

Fuel Polishing

"Undertaken when a fuel issue is found while testing or can be done as a recommended preventive service"



- Fuel Polishing:
 - Removes water and sediment from the tank
 - Filters contaminants - Strains water - Shock treatment
- Economical earth friendly alternative to replacing fuel
- All fuel recycled with no loss of product

Step C

Fuel Treatment

"We cover the full spectrum of potential issues with our three products"



- Ensures fuel is up to par and ready to perform.
- Fights Micro Organism growth.
- Prevents gelling - Boosts Cetane levels - Stabilizes
- Gives additional lubrication - Disperses contaminants to the engine.