

		SPINCLEAN FUEL PURIFYING	CONVENTIONAL FUEL POLISHING
<b>Outcome</b>	Returns diesel to a <b>cleaner-than-delivered</b> state; <b>measured &gt;100x lower particulate counts</b> vs distributor fuel (ISO 4406 testing).	"Cleaner," but often leaves water and contaminants; no quantified ISO 4406 particle count claim.	
<b>Filtration</b>	7 patented multilayer <b>zero-bypass</b> filters ( $<0.5\text{ }\mu\text{m}$ ) in a single pass; ultrasonically welded, clamped, zero-bypass housings; 3 filters of 9 laminations each providing <b>132 sq ft total filtration surface</b> ; <b>35 gal/min flow rate</b> ; large area and slower flow through denser mesh removes finer contaminants.	Nominal <b>single-layer</b> filters (10–25 $\mu\text{m}$ ) with stitched or sewn tops allowing slippage and bypass; 1 or 2 <b>low-grade</b> filters, often single-layer sock style; <b>2 sq ft total filtration surface</b> ; <b>150 gal/min flow rate</b> ; small area and faster flow through large pores result in lower precision and far less contaminant capture.	
<b>Water Separation</b>	<b>5 aerospace/military-grade separators</b> for ultra-dry fuel; designed to remove <b>free, dissolved, and entrained</b> water.	Basic/limited separation; water frequently remains → bugs regrow, corrosion continues.	
<b>Backwash / Process Discipline</b>	<b>Repeated backwash cycles</b> until clear; <b>five-phase</b> , SpinDri™ process includes <b>bottom vacuuming</b> and <b>high-pressure rinse around baffles</b> , then returns ultra-dry fuel.	Usually <b>no backwashing</b> ; recirculates through gravity rigs; often stirs up sludge from the bottom back into the fuel	
<b>Pump Type &amp; Emulsification</b>	<b>Non-electric, air-driven diaphragm pump</b> —moves fuel gently, avoiding emulsifying water/sludge.	<b>Gear pumps</b> grind water and dirt together → <b>emulsified contamination</b> that's difficult to remove.	
<b>Verification &amp; Proof</b>	<b>Clear hoses</b> to see contaminants removed; <b>advanced lab testing</b> available (ISO 4406 particle count, Karl Fischer water); <b>inspection-ready</b>	Rarely provides lab-grade proof or verifiable results on-site; the <b>true quality isn't known</b> until an inspection reveals whether the job passed or failed.	
<b>Waste Handling</b>	<b>We remove contaminants and dispose of them off-site ourselves</b> (disposal receipts on request).	Often leaves waste for customer disposal and residue in tanks requiring re-servicing	
<b>Programs &amp; Prevention</b>	Scheduled cleanings (monthly/annual), <b>annual stabilizer</b> ; education on tank housekeeping.	One-off polishing; reliance on additives; limited prevention guidance.	
<b>Compliance &amp; Risk</b>	Helps facilities stay <b>inspection-ready</b> (NFPA posture) and protect generators, injectors, and tanks from corrosion/failure.	Higher risk of clogged filters, <b>failed inspections</b> , alarms/outages during storms.	
<b>Component Quality / Cost</b>	<b>Premium filters (\$85–\$300+)</b> reflect aerospace-grade construction and performance.	<b>Low-cost filters (~\$10)</b> ; performance trade-offs and more frequent service.	