

 Continuous/Prime Application SDMO Generating Set Maintenance powered by D12/D16 VOLVO PENTA Engines		Checks										
		A	B	B'	C	D	E	F	G	H	I	J
Engine Systems		50 FIRST HOURS	DAILY	HALF-YEARLY	EVERY 250 HOURS	EVERY 750 HOURS	EVERY 1250 HOURS	EVERY 2000 HOURS	EVERY 2500 HOURS	EVERY 5000 HOURS	EVERY 7500 HOURS	EVERY 10000 HOURS
-Lubricating	check -for leaks	x	x		x	x	x	x	x	x	x	x
	-engine oil level	x	x		x	x	x	x	x	x	x	x
	Change -engine oil	x			x	x	x	x	x	x	x	x
	-oil filter	x			x	x	x	x	x	x	x	x
	-by-pass oil filter	x			x	x	x	x	x	x	x	x
Overhaul -oil-pump											x	
-Cooling	check -for leaks	x	x		x	x	x	x	x	x	x	x
	-radiator cleanliness		x		x	x	x	x	x	x	x	x
	-Operation of coolant heater		x									
	-hose and connections				x	x	x	x	x	x	x	x
	-coolant level	x	x		x	x	x	x	x	x	x	x
	-ventilator driving belt tension	x			x	x	x	x	x	x	x	x
	Change -water filter			x								
	-coolant									x		x
	-thermostat									x		x
	-hoses								x	x	x	x
	check - Fan Radiator belt(s)				x	x	x	x				
	Adjust - Fan Radiator belt(s)				x	x	x	x				
	Change - Fan Radiator belt(s)								x	x	x	x
	Clean -cooling system									x		x
	Overhaul -water pump											x
-Air Intake	check -for leaks	x	x		x	x	x	x	x	x	x	x
	-Vacuum gauge (air filter colmation) (1)		x		x	x	x	x	x	x	x	x
	-piping and connections				x	x	x	x	x	x	x	x
	-turbocharger								x	x	x	
	-intercooler							x				x
	Clean -Crankcase breather				x	x	x	x	x	x	x	x
	Overhaul -turbocharger											x
Change -admission joint											x	
-Fuel	check -for leaks	x	x		x	x	x	x	x	x	x	x
	-pipeline and connections				x	x	x	x	x	x	x	x
	-injector calibration								x		x	
	Change -pre-fuel filter and principal fuel filter	x			x	x	x	x	x	x	x	x
	-injector nozzle									x		
	-injector											x
	Tighten -injector posterior squeeze	x										
	Adjust -injectors and valves clearance	x					x		x	x	x	x
	check - visual inspection of the 18 rocker Arms				x			x	x	x	x	x
	Overhaul - the 18 rocker Arms							(x)*				
check - visual inspection of the camshaft				x	x			x	x	x	x	
-Exhaust	check -for leaks		x		x	x	x	x	x	x	x	x
	check - visual inspection of the engine		x									
	Change -Exhaust manifold gaskets											x
-Engine	-cylinder heads											x
	Tighten - bolts	x						x				x
	Change -alternator belt								x	x	x	x
-Electrical	Tighten -connections on the SDMO controller panels	x			x							
	Check -safety sensors and monitor Switches						x		x	x	x	x
	-Genset Circuit breaker and ATS				x	x	x	x	x	x	x	x
-Alternator	Tighten -Winding , electrical connections and terminals	x				x						
	Check -insulation					x						
	-absence of obstacles at the air entrance and way out				x	x	x	x	x	x	x	x
	Grease -DE bearing									x		
	-NDE bearing									x		
-Battery	check -battery charging system		x		x	x	x	x	x	x	x	x
	- check the electrolyte level and top up if necessary											
	-charge level and recharge if necessary (2)		x		x	x	x	x	x	x	x	x
	-tightness of the lead connections		x		x	x	x	x	x	x	x	x

(1)The air filters have to be replaced when the vacuum gauge stays in the red level after the engine's stop :depends on the site conditions and at least every 12months.
 (2) The batteries have to be replaced according the charge level.
 (x)* D12 engines before S/N 2 012 515 501 have got 18 Rocker arms in Steel.The D12 engines from S/N 2 012 515 501 up to S/N 2 012 524 745 have got "Steel X4" Rocker arms.an important load and the prime application use will wear out after a certain running hours the "steel" and "Steel X4" rocker arms. For intensive use, the Ceramics rocker arms are preferable.
 Since June 2005, all the D12 engines from S/N 2 012 524 984 have got Ceramics Rocker Arms