

Bolnes Maintenance Schedule.

This is a maintenance schedule for the Bolnes engine type 150-, 170- and 190/600.
In this list you will find what there has to be done with a standard 16.000 or a 32.000 hours overhaul.

	Every			
	2.000	4.000	16.000	32.000
Check the crankcase.	x	x	x	x
Check the exhaust valve clearance.	x	x	x	x
Check the duplex chain of the camshaft and the chain wheels.	x	x	x	x
Test the fuel injectors by using a fuel injector testing device.	x	x	x	x
Check the chain, chain wheels and couplings of the pump drives.	x	x	x	x
Check the governor drive	x	x	x	x
Clean and inspect the scavenging air receiver.	x	x	x	x
Check the functioning of the alarm and safety equipment.	x	x	x	x
Overhaul 16.000 hours				
Check the foundation Bolts.		x	x	x
Check the crankshaft deflection and record the values within the measurements records.		x	x	x
Check the fuel rack control mechanism.		x	x	x
Renew the fuel nozzles of the fuel injectors.		x	x	x
Clean the turbocharger.		x	x	x
Measure the compression of each cylinder and record the value within a measurement record.		x	x	x
Measure the combustion pressure of each cylinder and record the value within a measurement record.		x	x	x
Overhaul 32.000 hours				
Dis- and mounting of all Cylinder heads.			x	x
Overhaul of all cylinder heads in a workshop.			x	x
Check the valve guide.			x	x
Machining of contact surface cylinder head.			x	x
Check the exhaust valves.			x	x
Renew the exhaust valve seats of the Cylinder heads.			x	x
Dis- and mounting of all working pistons.			x	x
Overhaul of all working pistons.			x	x
Record the values of all working pistons within the measurement record.			x	x
Renew all piston rings.			x	x

Dis- and mounting of all the Cooling water jackets			X	X
Dis- and mounting of all the Cylinder liners			X	X
Overhaul of all Cylinder liners (Machining the contact surfaces)			X	X
Overhaul of all Cooling water jackets (Machining the contact surfaces).			X	X
Check and make measurements of all Cylinder liners and record the values in a measurement record.			X	X
Check and make measurements of all Cooling water jackets and record the values in a measurement record.			X	X
Check the Cylinder liners on cracks by magnaflux testing.			X	X
Machining of the contact surface of the cylinder block.			X	X
Dis- and mounting of all piston rods.			X	X
Renew the working piston rod metallic seal within each cylinder unit.			X	X
Cleaning and inspection of the scavenging air valve receiver.			X	X
Overhaul and machining all Piston rods			X	X
Clean and check all scavenging air suction and pressure valves.			X	X
Dis- and mounting of the first and the second stage of the air cooler(s).			X	X
Cleaning of the first and the second stage of the air cooler(s).			X	X
Pressure test the first and second stage air cooler(s).			X	X
Dis- and mounting of all the fuel pumps			X	X
Overhaul of all the Fuel pumps.			X	X
Dis- and mounting of all the main- and starting air valves			X	X
Overhaul of all the main- and starting air valves			X	X
Dis- and mounting of the Cylinder lubricator(s)			X	X
Overhaul and adjusting the Cylinder lubricators(s)			X	X
Inspect the camshaft, cams and roller guides.			X	X
Dis- and mounting of 2 scavenging air piston with crosshead.			X	X
Inspection of the scavenging air piston bearing, pin and connecting rod bearing.			X	X
Inspection of 2 main bearing and main journals			X	X
Check all imported tightening torques of the foundation bolt, cylinder head studs, main bearing cap bolts, connecting rod bolts, scavenging air piston bearing caps and piston crown bolts and if necessary replace them			X	X
Dis- and mounting of the governor.			X	X
Carry out a running-in program and record readings			X	X
Take a sample of the vibration dampers of the engine(s).			X	X
Renew all main bearings.				X
Renew all connecting rod bearings.				X
Renew all chains, chain wheels and ball bearings.				X
Dis- and mounting of the cooling water pumps.				X
Overhaul the cooling water pumps.				X



Dis- and mounting of the Lubricating oil pumps.				X
Overhaul of the Lubricating oil pumps.				X
Inspect the cooling water thermostat.				X
Inspect the lubricating oil thermostat.				X
Renew all the scavenging air piston bearings				X
Renew all the scavenging air piston piston rings.				X
Renew the O-rings of the Cylinder - and scavenging air liners.				X
Check the scavenging air piston by magnaflux testing.				X
Renew the flexible LP fuel lines.				X
Renew the roller guide springs.				X
Renew the inner and outer exhaust valve springs.				X
Renew the bolts and the spacers of the scavenging air pistons				X
Renew the bolts and the spacers of the working pistons.				X

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